

APPENDIX C

GEOSYNTEC'S WELL INSTALLATION
AND GEOPHYSICAL SURVEY RPEORT
DATED JULY 28, 2004,
AND GEOSYNTEC'S GEOPHYSICAL
INVESTIGATION REPORT
DATED FEBRUARY 15, 2006

WELL INSTALLATION AND GEOPHYSICAL SURVEY REPORT ASCON LANDFILL SITE HUNTINGTON BEACH, CALIFORNIA

Submitted To:

California Department of Toxic Substances Control

Prepared for:

Ascon Site Responsible Parties

Atlantic Richfield Company; Chevron U.S.A. Inc. and Texaco Inc., Conoco Phillips Inc., The Dow Chemical Company, Shell Oil Company, Southern California Edison Company, and TRW Inc.

and

Exxon Mobil Corporation

Prepared by:



GeoSyntec Consultants

2100 Main Street, Suite 150 Huntington Beach, California 92648 (714) 969-0800

July 28, 2004

July 28, 2004

Mr. Thomas M. Cota, Chief Southern California Cleanup Operations Branch – Cypress Office Attention: Ms. Christine Chiu, Project Manager Southern California Cleanup Operations Branch, Cypress Department of Toxic Substance Control 5796 Corporate Avenue Cypress, California 90630-4732

> RE: Well Installation and Geophysical Investigation Letter Report Groundwater RI/FS Activities Ascon Landfill Site Huntington Beach, California

Dear Ms. Chiu:

1.0 INTRODUCTION

This letter report presents a summary of the monitoring well installation and geophysical investigation activities conducted at the Ascon Landfill Site (site) in February and March, 2004. The work was conducted in general accordance with the Groundwater Remedial Investigation/Feasibility Study (RI/FS) Workplan-Revision 1.0 dated October 24, 2003. The workplan was conditionally approved by DTSC in their letter dated February 3, 2004. The work was conducted as part of the Groundwater RI/FS outlined in the Consent Order, Docket No. I&SE-CO 02/03-007, dated January 8, 2003.

This letter report has been organized as follows.

- Section 1.0 "Introduction"
- Section 2.0 "Geophysical Investigation and Survey Results"
- Section 3.0 "Monitoring Well Installation and Well Development Results"
- Section 4.0 "Summary and Recommendations"



2.0 GEOPHYSICAL INVESTIGATION AND SURVEY RESULTS

A geophysical investigation was conducted to attempt to find three monitoring wells (AW-1, AW-6 and AW-7) which had not been successfully located during recent monitoring events. The intent of the survey was to identify anomalies that could be buried steel well casings.

Based on previous site well location maps, AW-1 was believed to be located in the southeastern portion of the site, and AW-6 and AW-7 were believed to be located north of the site along Hamilton Avenue. The general areas of the three missing wells were first approximated using a map prepared by Ecology Services and Environment (ESE) (1983) and by reported well coordinates for the wells obtained from the Project Navigator Ltd. (PNL) database (PNL, personal communication). Nunez Engineering surveyed in the reported well coordinates for AW-1, AW-6 and AW-7 on February 3, 2004 (see February 3rd surveyors report in Attachment A). The reported well coordinates and ESE's mapped locations for AW-6 and AW-7 agreed fairly well; however for AW-1 the two locations agreed very poorly because the reported coordinates for AW-1 were in error.

To establish grid patterns to guide the surveys, approximate 100-foot by 100-foot zones were marked out in the general areas of each of the surveyed and mapped locations of AW-6 and AW-7. An approximate 135-foot by 60-foot area was marked out in the area where the ESE map showed AW-1 to be located. These approximate marked areas are shown on Figure 2.

A 5-foot grid was set up in the marked areas and the gridlines were traversed with a portable proton precession magnetometer operated by Spectrum Geophysics of San Fernando, California on February 13, 2004. During the survey, in the AW-6 and AW-7 areas, Spectrum Geophysics identified two anomalies that appeared to be localized and which are interpreted to be possible buried steel well casings. The locations of the anomalies are shown on Figure 2 as locations A1 and A2. Anomaly A1 is located near the reported location of AW-7 and A2 is located near the reported location of AW-6. Both anomalies (A1 and A2) are located under Hamilton Avenue. No anomalies interpreted to be steel well casings were reported in the area near the reported location of



AW-1. However, AW-1 was subsequently located during cleanup operations conducted in March 2004 following the Krik Well-80 incident.

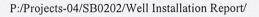
Daily field sheets and the Spectrum Geophysics Project Memo are presented in Attachment B. The locations of anomalies A1 and A2 were surveyed by Nunez Engineering on April 26, 2004 (see April 26th surveyors report in Attachment A).

As part of the well surveying conducted on February 3, 2004, Nunez Engineering resurveyed monitoring locations GP-5, GP-16, GP-20, GP-21, GP-23, GP-24, P-9, and P-10. The objective of resurveying GP-24 and P-9 was to check the vertical casing elevations. In the case of P-9, the elevation was suspect due to the anomalous contribution to potentiometric surface mapping observed. In the case of GP-24, the elevation was known to be incorrect because of a broken casing at the surface. The objective of resurveying the other monitoring locations was to verify the lateral positions (northings and eastings) of the locations. The new locations of these monitoring wells are plotted on Figure 2. The new casing elevations (GP-24 and P-9) and locations were incorporated into the First Quarter 2004 Groundwater Monitoring Report (June 4, 2004) and will be used in subsequent reporting.

3.0 WELL INSTALLATION AND WELL DEVELOPMENT RESULTS

Five groundwater monitoring wells (AW-1A, AW-4A, B-4A, MW-19, and MW-20) were installed at the locations shown on Figure 2. Logging of the well boreholes and well installation was completed between February 23, 2004, and February 27, 2004. The objective of each of the monitoring wells is presented in Section 6.1.1 of the Groundwater RI/FS Workplan-Revision 1.0.

The groundwater drilling and well installation activities were completed using a CME 95 hollow-stem auger rig operated by West Hazmat of Anaheim, California. Monitoring well permits were obtained from Orange County and the City of Huntington Beach (see Attachment C). Drilling was completed using an 8-inch or 8 3/4-inch diameter hollow-stem auger (the first 41 feet of MW-20 was completed with a 15-inch auger in order to install a permanent 40-foot conductor casing). Lithologic samples were collected approximately every three feet and logged by a field geologist. The samples were also field screened with a photoionization detector (PID). Borehole logs with lithologic descriptions, field PID readings, drilling notes, and observations of waste and impacted soils are presented in Attachment D. Daily field sheets including calibration

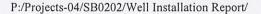


logs for the PID and air monitoring results are presented in Attachment B. Soil cuttings produced during drilling were stored in DOT-approved 55-gallon drums.

Well construction information is summarized in Table 1 and in Well Construction Diagrams presented in Attachment D. The monitoring wells were constructed of 2-inch diameter schedule 40 PVC casing with 20-slot screen (0.020 machine-slotted casing). The four wells screened across the water table (AW-1A, AW-4A, B-4A and MW-19) were completed with 15 feet of screen. The wells were screened from approximately 5 feet above the groundwater surface to 10 feet below the groundwater surface. Well MW-20 was screened in the lower portion of the Semi-Perched Aquifer Zone between the depths of approximately 64 feet and 74 feet. The well annulus adjacent to the screen interval was filled with #2/12 sand, which extended from the bottom of the well to approximately 1-3 feet above the top of the screen interval (Table 1). An approximately 1 to 3 foot thick layer of bentonite pellets was placed above the sand filter pack and hydrated. The remainder of the annulus was filled with bentonite grout and pre-mixed concrete at the surface. The wells were completed at the surface with locking steel monuments or, in the case of MW-19, a steel traffic box.

Following well completion, the monitoring wells were developed by bailing, surging, and pumping with a well development rig operated by Gregg Drilling & Testing, Inc. of Signal Hill, California. The five monitoring wells were developed on March 3, 2004, and March 4, 2004. During development, pH, specific conductivity, turbidity, and temperature were monitored. Approximately 90 to 100 gallons of water (approximately 40 to 60 well volumes) were purged from each shallow well (AW-1A, AW-4A, B-4A, and MW-19). Approximately 170 gallons of water (approximately 20 well volumes) was purged from the deep monitoring well, MW-20. Daily field sheets are presented in Attachment B and well development logs are presented in Attachment E. Purge water was stored in DOT approved 55-gallon drums.

The vertical elevation (top of casing and ground elevation) and lateral coordinates of the new monitoring wells and the recently located monitoring well AW-1 were surveyed by Nunez Engineering on April 26, 2004. The survey report is presented in Attachment A.



4.0 SUMMARY AND RECOMENDATIONS

The results of the Well Installation and Geophysical Investigation are summarized below.

- In accordance with the Groundwater RI/FS Workplan, a geophysical magnetometer survey was conducted on February 13, 2004, to locate missing monitoring wells AW-1, AW-6, and AW-7. Two anomalies (A1 and A2 in Figure 2) located under Hamilton Street, north of the site boundary, were interpreted to be possible buried steel well casings. The anomalies may be the locations of AW-6 and AW-7. No anomaly, interpreted to be a possible buried steel well casing, was identified in the area near the reported location of AW-1. However, AW-1 was subsequently located during cleanup operations conducted in March 2004.
- Monitoring wells GP-24 and P-9 were resurveyed to check vertical elevations that
 were suspect, and numerous other wells were resurveyed to confirm lateral
 locations. The new locations were used to adjust the site well/piezometer location
 map presented in the quarterly monitoring reports.
- Five monitoring wells (AW-1A, AW-4A, B-4A, MW-19, and MW-20) were installed between February 23 and 27, 2004, in accordance with the Groundwater RI/FS workplan. The monitoring wells were developed on March 3 and 4, 2004.

At this time we recommend that the anomalies A1 and A2, identified during the Geophysical Investigation, be excavated and investigated during the remedial phase of the project. If monitoring wells are found we recommend that they be destroyed in accordance with California Well Standards.

If you have any questions regarding this letter report please call Tamara Zeier of Project Navigator at 714-388-1804 or tzeier@projectnavigator.com.

Sincerely,

GeoSyntec Consultants, Inc.

Mark Grivetti

Principal Hydrogeologist, R.G., C.Hg.

Jeffrey Zukin

Senior Geologist, R.G., C.E.G.

Project Navigator, Ltd. Tancra Zeren Je 3

Tamara Zeier

Project Coordinator, P.E.

Attachments: Table 1

Figures 1-2

Attachments A-E

cc: Ascon Site Responsible Parties



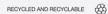
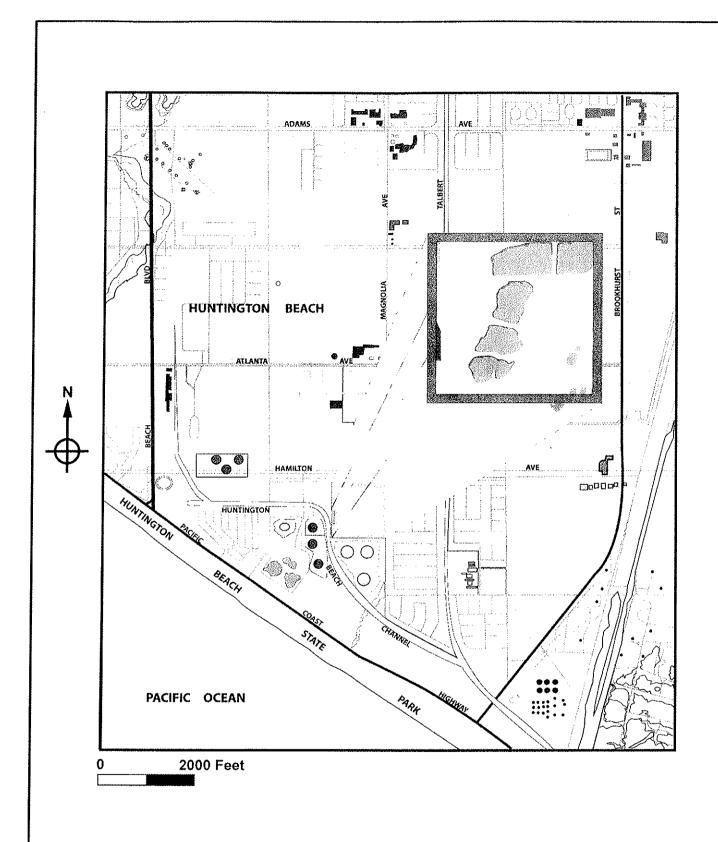


Table 1
Well Construction Information
Ascon Landfill Site
Huntington Beach, California

		_			
Seal Interval Depth ³ (ft bgs)	0-3	0-61	0-4	0.7	0-14
Bentonite Pellet Layer (ff bgs)	1-3	57-61	2-4	1-2	12-14
#2/12 Sand Filter Pack Interval Depth (ft bgs)	3-19	61-74	4-20	2-18	14-31
Screen Interval Depth (ft bgs)	4-19	64-74	5-20	3-18	16-31
Conductor Casing Depth (ft bgs) ⁴	•	41		-	-
Well Casing Diameter (in)	2	2	2	2	2
Boring Diameter (in)	8.75	8 and 15 ²	8.75	8.75	8.75
Approximate Well Depth (ft bgs)	19	74	20	18	31
Water Level Depth (ft btoc) ¹	5.28	26.42	12.51	8.90	21.60
유		MW-20	AW-1A	AW-4A	B-4A

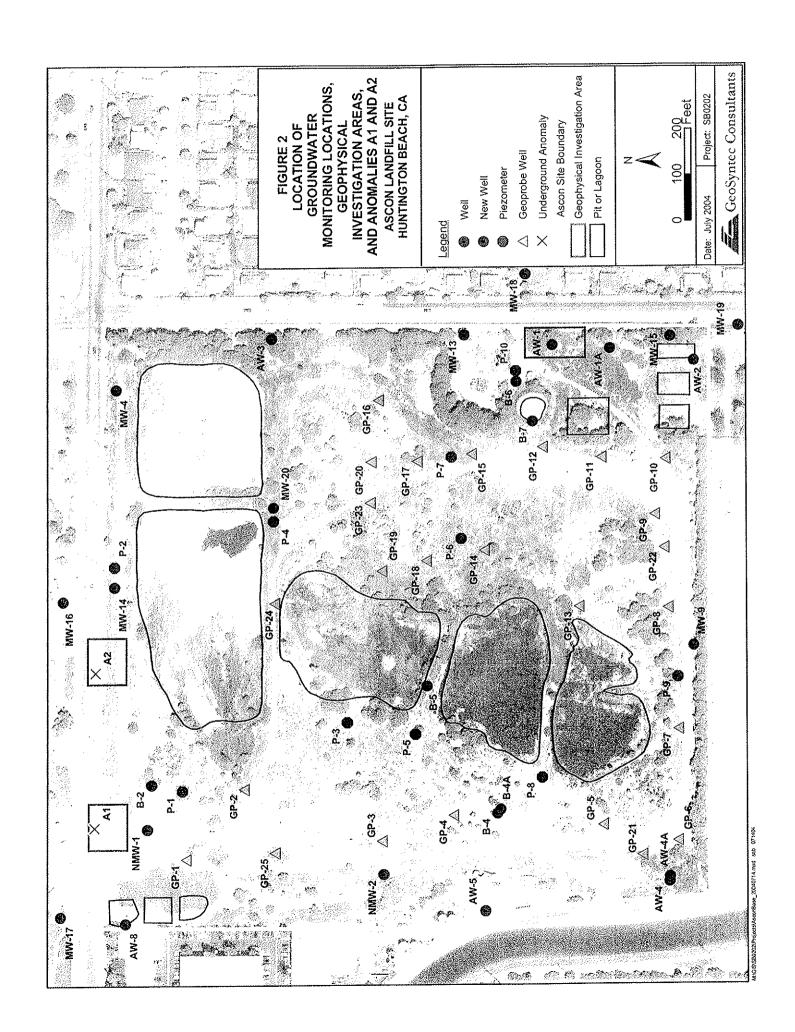
Measured groundwater depth on March 15, 2004 from top of well casing.

² 15-inch auger used to install 10-inch permanent conductor casing to a depth of 41 feet.
³ Seal interval includes bentontite pellet layer.
⁴ 8 5/8-nch diameter mild steel conductor casing if btoc: feet below top of casing if btos: feet below ground surface in: inches



Site Location Map Figure 1

Ascon Landfill Site, Huntington Beach, California June 4, 2004



ATTACHMENT A SURVEY RESULTS

SURVEY SHEET

PROJECT NAME ASCON LANDFILL ST	TE, HUNTINGTON BEACH
CONTRACTOR : C/O TAMARA ZEIER	(PROJECT NAVIGATOR, LTD)
IMPROVEMENT: WELL LOCATIONS	
CHECKED BY SWA-FPN	DATE: 2/03/04

NUNEZ ENGINEERING 6509 PAINTER AVENUE WHITTIER, CA. 90601 PHONE (562) 945-89\$5 FAX (562) 945-1705 nunez.eng@verizon.net

Pt./ld.	STA.	No.	<u> </u>	COOR	DINATE	S	GROUND	TOP OF	
AW-1	377.		 	NORTHING	<u> </u>	EASTING	ELEV.	PIPE ELEV	· · · · · · · · · · · · · · · · · · ·
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AW-7			N	2,184,626.00	£	6,036,817.00	16.13		SET WOODEN HUB W/ NAIL
GP-5			N	2,183,578.66	Ε	6,036,869.27		19,51	
GP-16	····		N	2,184,057.33	E	6,037,789.11		23.18	
GP-20			N	2,184,073.41	ε	6,037,685.80		23.88	
GP-21			N	2,183,491.97	£	6,036,834.92	· · · · · · · · · · · · · · · · · · ·	19.05	
GP-23			N	2,184,075.09	£	6,037,567.02		27.56	
GP-24			N	2,184,278.94	E	6,037,349.74		26.59	
P-9			N	2,183,416.00	E	6,037,188.18	····	18.27	<u> </u>
P-10			N	2,183,763.38	£	6,037,852.32		7.60	
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BENCHMARK USED:

DESCRIPTION

DESIGNATION 1G-151-74 A 3-3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "1G-151-74" MON. IS LOCATED IN THE N.W. COR. OF HAMILTON AVE. & MAGNOLIA ST., 57 FT. WESTERLY OF THE CENTERLINE OF MAGNOLIA ST. AND 81.30 FT. NORTHERLY OF THE CENTERLINE OF HAMILTON AVE., 1 FT EASTERLY OF THE SIDEWALK. MON. IS DOWN 0.5 FT. BELOW SIDEWALK SURFACE.

NAVD 88 HEIGHT (FT.) 5,609

SURVEY SHEET

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(MACNOLIA/HAMILTON)	6509
PROJECT NAME : ASCON SITE (MAGNOLIA/HAMILTON) PROJECT NAME : ASCON SITE (MAGNOLIA/HAMILTON)	WHI
CONTRACTOR . C/O LAURA MOUNTED (
WELL COOKING	
IMPROVEMENT: DATE: 4-26-04	

NUNEZ ENGINEERING PAINTER AVENUE ITTIER, CA. 90601 PHONE (562) 945-8945 FAX (562) 945-1705 nunez.eng@verizon.net

TECNED	BY : SWA/FPN			GROUND	DESCRIPTION
Well	COORDIN	ATES	TOP OF CASING	ELEV.	
Num-	NORTHING	EASTING 6,036,866.33		4.52	SHOT "X" MARK IN A.C. PAVEMENT
A1	2,184,666.63			4.97	SHOT "X" MARK IN A.C. PAVEMENT
A2	2,184,664.39	6,037,201.40	8.69	7.66	
AW-1	2,183,674.38	6,037,911.53	12.46	9.67	
AW-1A	2,183,561.02	6,037,899.81	9.78	6.88	
AW-4A	2,183,435.73	6,036,756.21	22.16	19.56	
B-4A	2,183,798.39	6,036,903.70		GS 4.81	
MW-19	2,183,285.78	6,037,947.94	5.20	AC 5.65	
MW-20	2,184,281.27	6,037,557.55	27.43	24.94	
(4)11 2.0					
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DESIGNATION DESCRIPTION

NAVD 88 HEIGHT (FT.)

5.609

1G-151-74 A 3-3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "1G-151-74" MON. IS LOCATED IN THE N.W. COR. OF HAMILTON AVE. & MAGNOLIA ST. 57 FT. WESTERLY OF THE CENTERLINE OF MAGNOLIA ST. & 81.30 FT. NORTHERLY OF THE CENTERLINE OF HAMILTON AVE., 1 FT EASTERLY OF THE SIDEWALK. MON. IS DOWN 0.5 FT. BELOW SIDEWALK SURFACE.

ATTACHMENT B DAILY FIELD SHEETS



GEOSYNTEC CONSULTANTS

924 Anacapa Street, Suite 4A Santa Barbara, California 93101 805-897-3800 (phone) 805-899-8689 (fax)

PROJECT: Accon RVFS
LOCATION FUN FUR FOR Sh. PROJECT NO: 280 202 TASK NO: 28
DESCRIPTION: Locating Wells - Marking Por DATE) To day Je bruary month 200 Ayear
CONTRACTOR(S): NA
WEATHER, TEMPERATURE: Sunny WOCK
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to sita none of the key holders are
there (lunch)
1315 1 pock up keys from HB office
1340 l'illiam to site Mary locations
for the MW-19, MW-20, B#A and AW-4A
\$ MW-20 had pleanty of room for a rig - thotographed
Mulli-AW-TA - had som for ig to back
in though the ground is uneven
at boring location Should be able
to level with Rigo Lydraulic hills.
Took Proto
B-4A There was a large bush impeding
access to desired le cation to
or " of the or of the
a compass and solution
MW-19 location is actually in street
WW-1 Carrier C
SE 2 OF DOCUMENT
Should Be Carry Accessed.
NAME: L. Wordles PROJECT NO.: 580202 HOURS:
Sheet No of



Sheet No. _____ of ___

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adjacent p	sperty and 15' east of lawn
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	Pased on location from Well in Hallat
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CONTRACTOR(S): NA	
DESCRIPTION Locate Colls/Re	
LOCATION: Hunton ton	PROJECT NO.: SBOJOZ TASK NO.: 20
PROJECT: ASCON, VII	



Sheet No. _____ of ___

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MW-19-	MW-	-19 Alternate	
Magnolia	Asce	on LF	





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LOCATION: HULAN TO INDITION PROJECT NO: SEO 20 STASK NO: 20
DESCRIPTION: Most with Inderground DATE: 20 day Farwary month 2004 year
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WEATHER, TEMPERATURE:
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So Cal Gas J
Verizon
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10 10 John from City of HB Departs of From
1015 Joanne from So Cal Gas gusite. MW-19 Cleaned
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There is a record of a 1'2" steel " Dingy that
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from the beinger She says there is
As Conflict with That location. on Marks
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DAU Joanne from So Cal Gas departs.
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to get permits for of wells
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Sheet No of



DAILY FIELD REPORT

PROJECT: ASCEN
LOCATION: Huntington Frank PROJECT NO.: SBO202 TASK NO.: 20 DESCRIPTION: BA Weet of Well Permitate: 20 day Feb month 2007 year
DESCRIPTION: USA MORT & 1 July Denni DATE: 20 day Feb month 2007 year
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Ga to Site (Ascan) to try how set
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Field Forms / Daily Field Report

Sheet No. Z of 2



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Sheet No. 1 of 2



Sheet No. Q of Q

PROJECT: ASCON
LOCATION: Huntington Beach PROJECT NO.: SROQ OZ TASK NO.: 20
DESCRIPTION: Doll Justall Walls DATE: 23 day Folorway month 2004 year
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Sheet No. _____ of ____5

PROJECT: Ascon
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0715 Arrive grant - Double cheak Measurements
for Nells AW-6 and AW-7 locations
Crew is oresite for site cleanup & Brush
2755 Spectrum Geophysical Crew arrives.
Chuck Carter
Colin Embry.
1 Show them I mass of lecations of 3
missing wells from when they wood
installed. Miss of where the wells were
located based on the surey late of tons.
and where they have been located on
subsequent maps.
I show them Aw-s & fall them that
per the installation report from 1983,
the wells have as steel casing that was
originally set to 3'bas with \$ 02' of stickup
700 We drive over to the location of AW-1
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1 opecs: totential COCs
Types of waste in 4 (oillied trial)
Hospital Route
Biological Hazards = Englants) in Icapants
2715 Colin and Chuck Sign HASP & Begin marking
AME: L. Mondos PROJECT NO.: 80202 HOURS: 9.75



GEOSYNTEC CONSULTANTS

924 Anacapa Street, Suite 4A Santa Barbara, California 93101 805-897-3800 (phone) 805-899-8689 (fax)

PROJECT: Ascon
LOCATION: Huntington Beach PROJECT NO.: 5130202 TASK NO.: 20
DESCRIPTION Coating Missing Wells DATE: 13 day Folgrang month 2004 year
CONTRACTOR(S): Soon from Goodhasiaa
WEATHER, TEMPERATURE:
Time Event
location of well based on map from well
matallation By Ecology & Environment in 1983
1950 Gany yoshiba on Sita. I thow him the Cocations
of the proposed wells.
We go to the AW-I and AW-IA area where the
Geoding 51 CS Jean is Working.
They logated tive anomalies and marked them
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54 th X A A A
100'
210 Phoned office to sacif we should look on
North side of lance- (20-25' lanking to North
North side of fence (20-25' farther to North) Mak was not available to talk on the phone
La Company to the property of
I decided to look at the other two Dirations
and come back here if many wants us to
- Maintenance man came by and intormed that as long as crews are on site, need only close Magnolia gate, lock Julen hoone
are on site, need only close Magnolia gate, lock Juhan noone
IAME: L. Movales PROJECT NO.: 30202 HOURS: 9.75
Sheet No. 2 of 5



Sheet No. 3 of 5

PROJECT: Ascon
LOCATION: Huntington Beach PROJECT NO.: \$30202 TASK NO.: 20
DESCRIPTION: Cocating Missing Wells DATE: 13 day Folgreny month 2004 year CONTRACTOR(S): Spectrum Goophysiach
CONTRACTOR(S): Spectrum Goophysiaal
WEATHER, TEMPERATURE:
The Event
1015 showed Speatrum Cum Oscations (centers) for Goids for Aw-6 and Aw-7. They began work on setting
IND:
1020 160 over Workplan an Appendices with Gary
Yoshiba and answer his immediate aucstions.
tell him that we are operation by the better of the wP & HASD It he has any further
and the same Des of the same than
Grivetti or Myself.
11:25 Voshiba deraits site.
1300 Geographica grid & Survey comported at AW-157 on
Canality ade of property tence.
there are a number of fromolies geophysics gruy thinks then are mostly larger than a steel casing. 13.30 Geophysics Crew 2002 for Winch
things they are mostly larger than a steel cashy.
1330 Geoffusics Crew goes for Winch
1400 Geophydigs Crew returns & Bogus Marking array
2000 hamilton treand north of property lende 1 1330 Joand War location for AW-1A
1410 I drive to Magnolia Street, to Check Occation
for MW-19 don over head hazards and mark
& location on mass (private property) to se
Cleared by USA As well as the first location:
> See attached sketch Map 4
430 Sperting colu is fristing Survey Drockson
Hur are Lawneys in the areas canciding with
1
AME: L, Moyales PROJECT NO.: SB0202 HOURS: 9,75



DAILY FIELD REPORT

NAME: L. Morales

PROJECT: Ascon
LOCATION: Huntington Boach PROJECT NO. SBO202 TASK NO.: 20
DESCRIPTION (Mating Missin: Wells DATE: 13 day Formany month 2004 year
CONTRACTOR(S): Sportrum Carplysics
WEATHER, TEMPERATURE:
Ine Event
the locations I measured out from the Well installation Reports.
I asked the Surveyors of there was
or Jasset the whother these are the wells
or Jasset Ital whather these are the wells
We are looking for they said that
We are looking for they said that Save for tearthy up that Aschalt, there wut really any way to tell.
The should contrider whether we am
have the drillers cookie Cutter out
the apphala to expose soil underlying
soan to check for the casing
- The wells who most likely sheared
off as result of pains the steet
based on their backtons
- Would we need permits to dut holes in street to expose lekely well locations
- The daile and all and a daily
Sope Done Hamilton die not likely wells as they installation report refers to the Wells as perimeter wells to monitor
as they Dinstallation report refers to The
Wells at Desimeter" wells to montar
Ottown Middle Mite in the landfill
property are in locations that cannot
property are y locations that cannot be reterned to as off site
ω

Sheet No. 4

PROJECT NO.: <u>S80202</u> HOURS: <u>9-45</u>



Sheet No. 5 of 5

PROJECT: ASCON
LOCATION: Huntington Broak PROJECT NO. 5B0202 TASK NO.: 20
DESCRIPTION: Mating Missing Wills DATE: 13 day Johnaly month 2004 year
CONTRACTOR(S): Spenfrum O Goephysics
WEATHER, TEMPERATURE:
Ime Event
1545 Go back to AW-1 exaction to complete array
and look at the Street
The area north of the Sence line Generally Despen- gicular to magnoba is very overgrown with
bushes. The geophysics Crew will get as Janas
they can with the magnetometer and
What is in accessible with that they will get
as much area as possible with the
metal detector then they will take the
metal detector to the street and
fry to see if there are day hits there
The magnetometer won't work there because
and of heavy rehicle traffic with not much
Shoulder ie, too much interferance to
Rathe magnétoureter to be effective
1630 Spectrum Departs ste
1655 1 Dereve and depart to
Drive to Santa Barbara
TVC-3
1 110
AME: U. Moya 65 PROJECT NO.: 580202 HOURS: 9.75



Project Memo

www.spectrum-geophysics.com

San Fernando, CA

Irvine CA

San Diago CA

(818) 365-9371 (9	949) 261-5261	(760) 738-8561
Project Name Land Fill Site Address Hamilton @ Magnifical Hundry ton Black, Ch	Client Contact Laura More	2105
of Rabor Hrs Equipment	Equipment Other	
Investigated proposed ground intrusion Investigated linear feet of proposed Delineated the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of detectable understanding in Jostian Control 3 of the surface trace of the surface t	sed trench for detectable subsurface Itilities and subsurface interferences	interferences. in area(s) ize.
Non-metallic and non-electrically conductive piping and moved that you hand auger to a depth of		
We recommend that you call the One Call Center prior to Your potential boring locations were investigated for dete marked on the ground surface by a 12-inch diameter white No consideration of liability will be given if borings are installed the stake or nail. Call for a revisit if additional boring	excavating or installing borings. ectable subsurface interferences and the circle or by stake or nail or flagging. stalled outside of the white circle or no	

for tree syntic Cllent/Rep Signature

Client's Project Number



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OC SON DISHOCK M215N DIX (714) 593-7707

PROJECT: A San			
LOCATION: Kmtington Bch	PROJECT NO.:	_58020x	TASK NO.:
DESCRIPTION: <u>MW-20: Conductor Costrag</u>			month2 <i>odf</i> yea
CONTRACTOR(S): WEST H22 M21			
WEATHER, TEMPERATURE: Padin condy	SKIES; 6001 4	1 good breeze	
MW-20- PRIMING CONDUCTOR COSTOR)			***************************************
obist Gn 2014 & B site gate; and 21000	ty wating (mike Ix, Bij	in all to get supplies)
07:00 Laws onsite law 3 643 mike wen			
07:19 Cande Gotth Meeter 11 min 6/4 Ani	ta 300 six 10	20065 200	SIB/R5
07:19 Condet Gotoby Meeting Commy, 64, Mil	e, ning, se);	Leus imaus	es inceting,
· heven subcontactors dos	• • • • • • • • • • • • • • • • • • • •	•••••	***************************************
heren lock & lexandoric evening	······································		
AN Monitoring	Fi d	• • • • • • • • • • • • • • • • • • • •	***************************************
'Emergency Phane"	*****		***************************************
Hospitsi Roste	************************	***************************************	
· NE	**********	*******	
· Work houss		***********	
07-31 End Soldy Meetry	•••••••	************	************************
or of con mobilizes to mu-20 six	4	• • • • • • • • • • • • • • • • • • • •	4**********
07.45 muz tonsfors well permit paperusk	12.69	• • • • • • • • • • • • • • • • • • • •	
Obion Begin Wand Augeong to Eve ly	•••••	•••••	***************************************
08-23 Begin sugering of esq (stanta); from 5	9. 9. 9.	-581 2vgers.	44 Sta
19:00 INN 2003 hanglon even 5 ft; remonde	d.then 3 non	2 evens 3.4	421ty @ 1862
9.14 Laur effice			••••••
of it babiest between on site: (Tray for 1800)			
of the brilled 40.5 A; stopped; mike needs	·····	weter pup on	
10:50 10 10 10 10 10 10 10 10 10 10 10 10 10			.
10.17 west the Met other personnel offerte trong	.)		
10-20 Cow begin ofs; pagento pull 41/4" zugers in	rep. for reming	<i>,</i>	
IAME: Gan Yoshiba PR	OJECT NO.:ろ	Вогог	HOURS:
		01-11-1	

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	i	

D,	A	I	L	Y	F	1	E	LD	R	E	P	O	RT	t
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IAME: Gan Yoshiba	_ PROJECT NO.: HOURS:
14:40 = 50 gr 4 4-fort, 4 bent gel)	i .
hearn to mix bestonite cement goe 40 gas 4+38003, 46 bout 921)	-3-6-096 Portlynd cenory mpt I/I (94163) 24 Hydrogei (5016) 13-69
1416 Lonered trenic Pige to 235 84; Soil 73	in annulus.
13.57 Frank from DISC onsite	
3.56 completed dilly through plug; loner	10" conductor cosing
OK- you proceed up trak.	······································
1) lower londy day cosyng bock at	7×17,
2) drill through plug	
n remove landred a casing	
1349 MIKE SZID HE would have to remove 5	WK suger Mug by:
1256 404 total 10" 125h Anny completel	of Ascon Lt. (2) 49 Stick up); onthe fut ~30 gol of potable
1746 Jest Likin onsite.	
gay vois lam lying for eil	to lube steel conductor cosmy throads.
1242 beam to lower 10' condition cooning	(10 fg lengths)
12:39 13: 625 Sony to 41 4	
1221 Crow back in ofs; besume solling Q 1	
Louis offsite to pick up pross, aguist	
11959 Bry brok on THE; Crow brezk for lunch	y
1134 Billy office to get know, for craw	
1058 hesime dilly 13" to ager from 5	
10.44 Begin to ream holy for conductor	
crew working on claims side	
10.31 Are monitoring white evens pulled a	Language with HC Galando Gands,
10-15 9-13" doz 16A muentony	stornes.
WEATHER, TEMPERATURE: Jasky Cloud	y SKIES; cool of good breeze.
CONTRACTOR(S): NEST HOR MOT	,
DESCRIPTION: New-70 : Conductor Cossing	
LOCATION: Kusnatur Ban	PROJECT NO.: <u> </u>
PROJECT: ASCUA	
A .	

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Sheet No. 2 of 3

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Sheet No. 3 of 3

PROJEC	:T:	A500	<u>m</u>		···	·				
LOCATIO	ON:	Hunts	laton Bo	41		_ PROJE(CT NO.:	580	0202	_ TASK NO.: 20
DESCRI	PTION: _	Mn	2-20: Con	ductor G	25jAg					month 2004 ye
CONTRA	CTOR(S):	west H	laz mat		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
WEATHE	R, TEMP	PERATUR	Œ:		····					
		- 64 (
			ck onsite er 514- vant, bant		Ci èmbe	.szid.he	ะปกเกหา	.gast	- ~30 <i>G</i> 1	r al & noter
15:21	45 97/1 1797 77	+ 3 cm	M. bent.	10181 : +					er skill iv	hele,
				ite; will	be back	40mino	<i>v</i>		-	
15:49 En			enger (emoved	fom bo	€,	**********	********		•••••••••••••••••••••••••••••••••••••••
			************		************	**********	*******			***************************************
16.11 Lane	24 5e21 :18 40	200000 and -620	d ~10.fg comens + 1	; erew (lowed 2	1275 Me 121 10121 14	nuxupiu S, ben bass lod bas ben	t chip tons ear tonite s	5 MSide went used sel used	condutax czang
	Cles	ખ પાંગી હ	you not	e to set	Me; wo	ned zbor	4 con	sucko.	(Commo	beson baryout
16:40 An	11.Cc (C)	AN-1A	SAC M	mike	i dill o	9. 10.50	+ p d	con	Lacion	rest,
		izid th	cice plan	ot will!	Moke it	slick bu	A Shoul	d be z	uc to d	bit.
17:15 She	wed h	MII KE TIKE GAT TIKE GI	1 de con 124 for	rehab in	in Bin	1504 f Waresin Shay mik	renive	ll Gor Hie en Brehz	erijei Kedioci b nolk	access, in hard Anily e13-15-2
Bill.	n3 Joe	HOVIN	dums:	to drum	endour	c 11050	11+20	Lecon L	veter	
17.40 CAT	N MON	ed 6 p	ગાર્થીક હી	501.70	contains	ent you	d. Mo	we of	(5,10; 5)	un going down
17:45 WK	H22.N	of can	offsite 21	PEL Mike	- Jan A	w-8 well	reinb	HOK.	ENDOF	nges.
64	dopa	Sile E	1D.O.T. OD	y					********	••••••
			, , , , , , , , , , , , , , , , , , ,		<i>S</i>	<u></u>	********			
	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •)	4			
		* * * * * * * * * * * * * * * * * * * *		***********	σ					
I A A A C'		[a, z] <u>~ L</u>			-	······································				
IAME:	Gan	y Yoshit	<u> </u>		PRO	JECT NO	.: <u>_ 58</u>	30202		HOURS:

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n	ΔΠ	Υ	FI	FI	n	P	ED	ORT
்ச	MIL	_ 1	1 1	L. L.	.LJ	П		UKI

* Styreax 25 CQC but 6 Hospital loute reinew	ev (tow)	*************	***********	***************************************
· Orum H>nd UNG	•••••		***********	***************************************
" site danger- The fant		*************		*************************
" Fiction zone Teene			· · · · · · · · · · · · · · · · · · ·	******************
OI water to hydrate p	ellets.	********		
07:09 End Sztoty Meeting: Hos con	racidentas Sign to	re Listors	5/90:10	Sheet (see she
07:99 Beggs to hand reggs to 5 St.		mike placed	6 2 3A 3 ·GR24	where paret
17:47 Beam to dal from 54		Mon	ment.	to fellow.
1751 PANES to 154 3 wit for user			· · · · · · · · · · · · · · · · · · ·	
03:20 water @ 13.6 4-645; will sall	down to 20 Q.			**********
08:32 70 hole to 20 \$4;	************************	*******		***********
1845 Here Home from Unocal agrite	•••••	*************		*************
0854 Here depoted site i continued	his sile inspection.	**********	*********	********
of 00 legin sugging the new 2814 sad	by 5 bgs RMC =2/1	2.52nd		••••
69:13 83/4 in 27 zuger pulled out of	hole after hado	boo her	(med) chies with
O.T. water (5 52)		_		
584 Grenvingst (2 bas/3 44CK of) comented in place			
9:34 we in Away: 12.84 for the 4 Misting.		35 m. (da.	£ 1 o	
70 = 21.49 G-toc (sale bottom)	Generaled 1-5	Sant Lau	andrae	ian water
9:46 De good house AN-OIA silve 1 1		3.361.00M	M.Q29	<i>d</i>
9245 PEMOD from AW-OIA sites will dece	M. Eugers Crenoct	stagi. Hav	t enoue	in ocean
950 Anives @ AW-04A tite stop compuse	••••••••••••••••••	************	• • • • • • • • • • • • • • • • • • • •	***********

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D.	All	$_{Y}$	F	ELI	D R	EP	ORT	•
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AVIET LIFED IVEL OIVI	<i>'</i>
PROJECT: Asun	(714)484 5410 FMK LOT
LOCATION: DALI MOTOLA, AWOLA, BOULA	PROJECT NO.: 180202 TASK NO.: 20
DESCRIPTION:	DATE: 24 day 02 month 2004 yea
CONTRACTOR(S): WEST HOR MOST	110,111
WEATHER, TEMPERATURE: 1214 Crowdy Skies	: bærn i
Aw-04A: PAILING: WEN Construction B-4A	DAILY THEY CONSTRUCTION
10 15 Rig THAT OVER LOCATION & LOW PREPA	ng.
Fonk from DTSC onside	
10:15 Begin hand zigering: Frank offsite	•••••
145 W/ m Aw 04 @ CA-635	
Miscogsed of more that select well a 16.	h all not are is now to set 2 good seal,
und sex TD for Aw-ouA @ 1844	25 described in wh.
lively factived 18 st smalle is great begin to build	" well loss (decones)
11:30 Frank from DTSL ontsite.	
11:43 Fork brans to dept site - steel Home -	from 64 16) Hought meets him stop site
12 06 stere off sike, crow free to denot	
TO = 18.52 fe-toc	
	suspised of stuff in well. Development
Should take case of it.	responses of stuff in cell; Development
beneated 1.53 gx/ drum of 50:1	
12-13 Billy Afsile to get lunch	
12-43 Crew dressy schill @ B-4A	
WL in B-4 = 21.06 Gr-toc	
1251 Begin hand zugenng.	
Here Home off six to got lunds	
13:00 Billy Brok wisite; crow book for lunch	
13-22 grew book in 085.	
3:27 Steve back onsite	
14:34 And steve met Fire Dept magnetor di	And Tarred Giles Steen hart and it
we were down soil men -	say to a man of the track of the book of the
womes now about miffector zie	rifector complained start was the gate being unlead
	OJECT NO.: SBOZOZ HOURS:

Sheet No. 2 of 3

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DAILY FIELD RE	P	OR'	T
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PROJEC	CT: ASCON LF			
LOCATIO	ON: <u>Unatington Boh</u>	PROJECT NO.:	680202	_ TASK NO.: 70
DESCRI	PTION: <u>Dail myddu Awrola, Awroya,</u> B.			
· 1	ACTOR(S): West Hozmot			
WEATHE	ER, TEMPERATURE: 12Hby clarby	stics, call i breezy		
15:32 1 15:32 1 16:45 A	Sin For this Pectors white, but Mike noted that they had took and 35 get of lottland commen crew begin every forther 2 bgs firmx frem to concert + f M = 2193 forther & B-4A Generated 3:55 gxl dams of Steve have of the Gy goe", to drum contament The / De covered mu-20 of uni Seid seed was @ 12 fa-bgs i	ble getting the well en he had to fush A / Bent grant down A dawn into growt. Lean aps. Pepid schoolinge TO = 33.41 lt too Soil Lecan water [comp	siger? hama have to surface oste Aw-o4A/ 3 (2021 Av-o 6 to prep for	18-4A
38.81.326	en i Gn defal sites END OF DAY	••••••••••••••••••••••••••••••	••••••	

••••••				***************************************
~******			******************	**********
*************				***************************************
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• • • • • • • • • • • • • • • • • • • •		*******************************		

VAME:	Gay yishibi	PROJECT NO.:	Boror	HOURS:
			Sheet N	lo. 3 of 3
				\

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் ၂	м	L	. 1	Г		LU.	\mathbf{r}		l J	\mathbf{r}	

IAME:	Gam 405hibs	PROJECT NO.:	Sheet No. / of 7
	none or its Ht. can begin u	ey consqueron,	
7:51 KGU 0:05 TO	we drillery from 70 fi hole @ 74.5 ft. Can begin u	all engly seem	•••••••••••••••••••••••••••••••••••••••
G. 2-7 1	**	o the job,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
••••••			Short but has an extension prece
••••••	Said to set green	below test a 64 ft to	74 ff. ox.
• • • • • • • • • • • • • • • • • • • •	Mest Sin	plin 664 to 65.54 c	75. forc bend egan
*************	Told him I saw (log	ged 2 clayey silt in l	A 6" of 52mples (62-6254)
************	could self Ession to 25K if	us zie looking for =	clay toyel?
09:48 G	Hed TO have @ 70 ft; ende	d Stripling in fine 120	4:
0019 900	nin dollin sown from sout I	0 01 ,294.	
00:20 M	HE SAN MERE IS ROME POI	Hand cement must	3 m bottom of corry able to dillo
***************************************	127/2 25 april 14 - 11 11 11 11 11 11 11 11 11 11 11 11 1	A water from one	3
***********	Begin to ball conductor coats	a the same	
01717 M	Ne 532 water a -15 Hum 15-	4 sugers onsite for	Lilling
21710 C	row 1 ng omw-20 site	• • • • • • • • • • • • • • • • • • • •	
07:07	eron nursing on 61-24 sil	be nell rehab nolk	adding a smaller steel wonument.
	Hen E"HELL MON	most added in over	existing one looks very good!
(06:207	Wike 52d they sorved a D	4.20 to complete hu	be well celebrack on An obe and
			rt (replacement for Bills, today)
corre el-	- Ax mondoing = have	and head inte	
• • • • • • • • • • • • • • • • • • • •	- han todan - Voc m Gw	-lock	ortes as yoursed by 4th Fire Inspec
LELETA 2. 9	conduct Salety Meeting:		
06:44	tomed e gate, com alres	dy withy (wite,	of 1 Kidiza)
	Mw-20 = 020 2 Post Conduct		***************************************
	John Marie Jan Marie John Marie Jan Marie John Marie John Marie John Marie John Marie John Marie Jan Marie John Marie John Marie John Marie Jan Marie Ja	1 1111 1110 (1202	
İ	ER, TEMPERATURE:		<u> </u>
. 1	ACTOR(S): West How	UAIE:	day e2 month zary y
1	PTION: Dauthstoll MW-20		
	ON: <u>Hutington Beh</u>	PROJECT	NO.: 580209 TASK NO.: 20

A STATE OF THE STA	

Mike > (714) 720-5737 25000 (4) (4)

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PROJECT:	Ascon LF	Jek (Ex	75) 2917 - 2800 968-9671	(800) 653	5-6850	RICK WAS
LOCATION:	Huntington Be	och .	PROJECT NO.:	980202	TASK NO	.: Zo
DESCRIPTION:	Dill Install new-	<u>"</u> 6	DATE: _ <i>25</i>			
CONTRACTOR(S	s): <u>nest Hoz</u> /	nat				J o a
WEATHER, TEM	PERATURE: <u>la</u>	My Clardy	skies, very breez	थ्र रेट्ग (७	20 m);	voy gkits (11:00)
11:03 Beyn	to swab screen (se	uge) fu szn	d pacis,			
	on bent pelicls			n ~(1:25.		
504	of hin frame; b	ortan a tre	ME @ 43 47 A 6	45. told 5	121 C 57 f	······································
11.49 13mK 6	om procensite	•••••••	******			
12:44 Frank 6	HARE; crew set	tua steel m	onument.			4 - 4 - 1 4 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7
17-00 HNOO!	4 WL 12.82.4-	toc.			*************	
	WL=9.10 4		******		************	****************
	1 W = 21.57 A		*********			*****************
GP-24	New Surface Com	pletion	************************	•••••	••••	
• • • • • • • • • • • • • • • • • • • •	·····-	ໄປສະນາກ	•••••	*********		
			• • • • • • • • • • • • • • • • • • • •	. * * * * * * * * * * * * * * * * * * *		*************
••••••	2.96	6" 10.5te	el costing	******************	• • • • • • • • • • • • • • • • • • • •	
	<u> </u>	***************************************		***********		
				************		• • • • • • • • • • • • • • • • • • • •
1955 mike 5	Ed he would be a	ell correct y	P by 14:15; Mike	12d no 12tes t	han 15:00 h	Stat MW-
	(4	Trec every e	HEIVZENITETT JELT	nit.		******
	(cfs wit till				•••••••	
	Mike about Jeff			••••••	•••••	
20.00	CAn Remit ise	eths has had	k time restriction	5,		******
4:22 westher	not soew offsite -	to gab lund	1 A			
(23) HU-20	Wl=26.88 f4-to	c. A. Cising	Storty	***************************************	*******	
	TD = 73.03 4-tre		************	***************	*****	
40 Spoke to I	off 2 tops no fen	m mit yet; will	call later today it	Sondano he	Alers.	
Stoke town	it drike (usest Hozak	24) 35 ad fo	e us to call the o	fe by 5:00 pm	teden if	sometim.
· h	appens or not 36	24 Miles to	let him know of	A B henpar	1M9 .	8
150 by ell 57	2 ON is			2	v/. (
" 10 " " " " " " " " " " " " " " " " " "	ETHED OF HAVE					I

Sheet No. 2 of 2

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-	77.		. 1			u	4 /	L	•	/I\ I	

·		
PROJ	ECT: ASCON LF	•
LOCA	TION: Huntington Beh	PROJECT NO.: <u>SBOZOZ</u> TASK NO.: <u>Zo</u>
1	RIPTION: <u>DAJI/MADII MW-19</u>	DATE: 27 day 02 month 2004 yea
CONT	RACTOR(S): west Hozmot	
1	HER, TEMPERATURE: Party o	torder skies herez, à cool.
<u> </u>		f to the second
1	INING MW-19 ? Mitallation	
08130	homes a site: you zeroay a	uziting e Hamilton Gate
	Traffic	
• · · · · · · · · · · · · · · · · · · ·	- site set up	
	- helogis wat book	
	End Sofety Meeting	
	Arrived @ Side (MW-19)	
V.144.3	The sett GIVENS (Gt) Trugs	ector); SZN OK, go sherd i seryp; mil be by -10min.
A.12	Beam to hand right control C	te) 3etro
	•	en H' clear MAR Bushes to a Chi
7. <i>1</i> 2. 17. 17. 17. 17. 17. 17. 17. 17. 17. 17	bid he little out had look	5. like gravel i gloss pieces.
**********	will step out 414 to south is	
07:41	crew brek Giled first hade	
	Called self 2 to make swe (
		zoflett i begin hand a going her hade
A:46 1	letes progern to ~1.5 ft water	nhde howing in from south in very use angues to
******	rebrogues govers.	
		then into clay foon after will make sure seel
••••••	Z below 2 ft " well TO B	Now 194 to get sed from 3-24
10.42	ursitors from resolutionless works	up to park stand a ate interior and
0.52	lesson marked zbord	Thon town.
	TO hade to 19 ft. (62	refle real down to 1954)
10:52 1	Visitais departed site	the state of the s
4:10 L	cell completed; bent pellets to 10	volece home 1 person
		- 1014 64 -245.
IAME:	Gan T. Yoshiba	PROJECT NO.:
		TOURS.
		Sheet No) of 2

GEOSYNTE

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PROJECT: ASCON LF	
LOCATION: Hutington Beh	PROJECT NO.: <u>580707</u> TASK NO.: <u>Zo</u>
DESCRIPTION: DAI/MSTOIL MW-19	
CONTRACTOR(S): wast Hozunet	
WEATHER, TEMPERATURE: Pesting a	dady skies, breezy i cod
Grew begin frep for surface II:41 Arrived @ Ascen dam yzed for I Bity 3 Jox conductors 11:57 Mike 3 GN Depth Ascen Le refer 12:17 Joseph Ascen Le refer 12:17 Joseph Ascen Le refer 12:17 Joseph Ascen Mw-19 12:18 Arrived @ Mw 20 for Static Will 12:18 Pick p 2 traffic delineators 5 MW-19.	Seconfletion's along of dams from MW-19 dilling. Surface confletion e ywy-19 dopping off 2-55 are dams of Soil. 27 dams 12 (MW-19) = 29 barrels. 27 dams 12 (MW-19) = 29 barrels. 21 to 1.5 ft of coers = 19 ft to Hecks healdwaying. F. THEIL PAS: duct, syes consider around well box. versive ment, to place namely purchased patiocs on new steel. Surrounding name installed is hackened concrete. A colony of Himbington Body that we well done in the
VAME: Gam T. Yoshiba	PROJECT NO.: 580202 HOURS:

Sheet No. 2 of 2



2100 Main Street, Suite 150 Huntington Beach, California 92648 Tel: (714) 969-0800 Fax: (714) 969-0820

BOREHOLE RECORD

K AW-SIA BORING START DATE 02-24-04 FINISH DATE -2/24-04 PROJECT AGON LOCATION HINGTON BON NUMBER 380202

ELEVATION FT DATUM

SHEET 1 OF 10

_GE	EOTECHI 7/02 JU BUREHULE RECU	KD		BER	380	20	2			<u> </u>
DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLICLOG	ELEVATION (ft)	NUMBER	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS
				-(,	je din					07:93 Jugan hard angang.
5-	52 mby fult - light divelorum (2545/4) Self with law fine sond; dry; 30% such fragments; to plan frag. TR fine growth (TR, 20, 80); 10 playie.	5M		X		6/5/ ₁ 9		סנ	ના ઘટ	
	1 in finc 13 nd; mod. mort; (0,35,65)			X			ć	0.0	मः धु	Bagm to dill a on:47
10 -	ELAY-tight dire toma (2.59 5/3) day; TR good (TR, D, LOD); Stiff: high plostic: LLAY-ak grayth brown (2.54 4/2) day; TR graves (TR, D, LOO); Stiff: high plostic, micrococks wroteles.	CL	-	300	4	1/5/6	٥	٥,0	n:48	rangles plugged-love (xecula)
1	SAND: AKARCA ORCY (GUEY) White sand with little sill, 10% that forestains; microccous; low postic; v. moist. (0,95,5); well suited	5 <i>P</i>	₹.	X ne	8	1/2	c	2,00		rangla Nugges. Inv Newsen Ink Strages to well be certery, Vasuue Salling@ 08:20
15 -	some 25 2bore; Sztrezted			100	5	9/2	٥	0 8	.26	
30 -	enc 25 abarci † gransize (fine-to-medsiand) new soired: TR show Azgment: 52 topics (0,100,TR)] - - -	X	/8/	1/2	0.	0 88		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	TD@ 20 4 on 02/24/04 @ 08:32									reamonted dailing; TD = 2014
1			1							
5 -			4							
TRAC	CTOR LARY HOR MOST NORTHING)	REMARK	(S:	-					

CONTRACTOR LAST HE EQUIPMENT CME 95 DRILL MTHO HSA DIAMETER \$3/4 in LOGGER GM

REVIEWER

EASTING ANGLE

Vertical BEARING

COORDINATE SYSTEM: SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



924 Anacapa Street, Suite 4A Santa Barbara, California 93101 Tel: (805) 897-3800 Fax: (805) 899-8689

GS FORM: WELL SB 1/02

WELL RECORD

BORING BY AWDIA
START DATE 02-24-04
FINISH DATE 02-24-04
PROJECT ASCON
LOCATION HUMBARTS BUS
NUMBER SAUZOR

SHEET 1 OF 1
GROUND SURF. FT.
TOP OF CASING FT.

DATUM

WELL CASHS DIMETER DESCRIPTION PORTOGRAPH CONTROLL PORTOGRAPH CONTROL	<u>w</u>	ELSB 102 VICLL REC		לט		MBER 380200		
CONSETTIVE SICHLY REQUISE TO STAND AND PACKET TO STAND PACKET TO PER STAND PACKET	DEPTH		SYMBOLIC LOG	LAYER	0.37	SUPCAP PROTECTIVE RISER	RISER HEIGHT RISER DIAM.	3.16°
GROUT QUANTITY	10 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -	6 by the "2/12 sind 1 by wyden Encropley med 1-5 gol D.J. woter 1 by Repid Sch ranscolerist 2 by sic Mix lie. Mix concrete 2"= 0.02242 54"= 0.42 for 32nd: (0.42-0.022) × 16"= 6.4 fd 3 bent : (0.42-0.022) × 2" = 0.8 fd 3		Mcs. of bed of the chippy of the soul of t		CONCRETE TYPE BORING DIAMETER TOP OF GROUT DEPTH GROUT QUANTITY WELL CASING DIAMETER WELL CASING DIAMETER WELL CASING TYPE TOP OF BENTONITE SEAL BENTONITE SEAL QUANTITY TOP OF FILTER SAND DEPTH ENTER SAND QUANTITY TOP OF SAND PACK DEPTH SAND PACK QUANTITY TOP OF WELL SCREEN DEFTH BOTTOM OF WELL SCREEN BOTTOM OF WELL SCREEN SCREEN TYPE SLOT DIRECTION AND SIZE BOTTOM OF WELL DEPTH BOTTOM OF BORING GROUT GROUT QUANTITY	Signification Signification Sch 40 2 Enviroplication RMC * 2417 6 TH Abos WATION Ansi DEPTH Abos BLEVATION Ansi Sch 40 AVC C. C. C. 20 TYPE	in Puc cd, bent du bag - fft-bgs - 20 21 20 25 - - - - - - - - - - - - -

CONTRACTOR WEST H2Z WIST EQUIPMENT CME 95
DRILL MTHD H5A
DIAMETER 8344

REVIEWER

LOGGER GIM

EASTING
ANGLE Vertical
BEARING —

COORDINATE SYSTEM:



2100 Main Street, Suite 150 Huntington Beach, California 92648 Tel: (714) 969-0800 Fax: (714) 969-0820

\$ AW-04A BORING START DATE 02-24-04 FINSH DATE 02-24-04 PROJECT Ascarly LOCATION Huntington Bey

SHEET 1 OF 10

ELEVATION FT DATUM

G	GS FORM: EOTECH1 7/02	BOREHOL	E RECO	RD	NUM	MBER	s Hu s Bo	411/1 1202	94a <u>'</u>	180	Ч	
DCPTH (ft)		MATERIAL DESCRIPTION		SYMBOLIC LOG	ELEVATION (#)	NUMBER	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMBUTS
5-	4.0020	re brown [2.54 5/6] fm. I sub comped fand uith 15 I to hubromded glanch (6 (5,95,72)	cto esc the tractornes. (76 mm);	sp						0.0		10:26 Begin hard augering Begin drilling Com 44 @ 10:36
10 -	Starns SLATM SAMO: dkg Silf: nice	ck [25y 2.5/] clay with Kiff, mother high Plostic MS (0.0.1m); moist mish gray [644] Fine 52n 2004; 5% that (0.85 ch fortes 12nds; 52han	is the adole	Mr/cc SM	▽			1/2		2.6		sandies plusges.
	PAND: SK AKEN Filt: 52 3 Boor; mic	ish aren (6154 4/1057 for the A forginary: 504-1246) 12060-5 (0,100,72)	c 52nd; 18.	SP	-	X	8/	1 m		0 10	×5s	temples plugged,
15 -	† 664n 190: bn 1	c to med tiend; TR shell R coe sand	1 fagnents		-	X	17/4	1 2/12		10.	:59	szapler plugges
1	11 mc 25 26 ove					X	13/	//3	0.	o 11:	·04	
20 -	Oriuled to 18	A and sanfled to 19	7.5 ft-1295							4		***
30 CONTRAC	CTOR WOOT HO	zwał nort	HING		REMARI	(S: ,	12/04					

4/4/11

EQUIPMENT CALE 95
DRILL MTHO H3A
DIAMETER 83/4" LOGGER ATH REVIEWER

EASTING ANGLE BEARING

Vertical

LUCATED 2000X. 101/2 ft E/SE from AW-04.

COORDINATE SYSTEM: SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



LAYER

DEPTH

(FT)

5

10

15

20

GEO SYNTEC CONSULTANTS

924 Anacapa Street, Suite 4A Santa Barbara, California 93101 Tel: (805) 897-3800 Fax: (805) 899-8689

WELL

LAYER

DEPTH

(FT) 338

Concrete

ROKING	BE HW-DYA
START DAT	E 02-24-04
FINISH DAT	E 62-24-04
	Ascon LF
LOCATION	Hutington Beh

SHEET 1 OF 1 GROUND SURF. FT.

TOP OF CASING

DATUM NUMBER SBOZOZ

GS FORM: **WELL RECORD** WELL SB 1/02

MATERIAL

DESCRIPTION

7 bgs RMC "2/12 5200

I by Enverplay med Bont,

52nd: (0.42-0.022) x 16 = 6.4 43

banfung: (0.42-0.22) x1'= 0.4 f13

maren Immortan

2=0,02242 B% = 0,42 f12

AACO I			OCCD LONOTH	5 4
MELL AYER	5.40		RISER LENGTH RISER HEIGHT	338.
EPTH		⊢— LOCKING COVER ———SUP CAP		81/2"
(FI)		PROTECTIVE RISER	RISER DIAM.	2.98
3,35		CASING HEIGHT	CASING HEIGHT	2.70
		<u> </u>	•	
nerve	~	SURFACE COMPLETION	SKY MIK PRE-MIXED	nument
خ رر	× × × ×	CONCRETE TYPE	for mix for mixed	concate
, ,		BORING DIAMETER	83/4	1
animik		TOP OF GROUT DEPTH	-	·
cs one	90 99	, GROUTTYPE <u>&</u>	· · · · · · · · · · · · · · · · · · ·	
(70 96	Ś	*****	
2' =		 GROUT QUANTITY		
;		WELL CASING DIAMETE	R2	in
3' 		WELL CASING TYPE	Se4 40	1kc
,	目:	TOP OF BENTONITE SEA		4-jags
		BENTONITE SEAL TYPE		<i>'</i>
,		BENTONITE SEAL QUAN	,	bag
;		TOP OF FILTER SAND D	E71H	
`	. :	FILTER SAND TYPE		
η. ·,		FILTER SAND QUANTITY	,	
5200 j		TOP OF SAND PACK DEF	ਾਮ <u>2</u>	H-695
·		SAND PACK TYPE _	FMC = 2/12	
.;		SAND PACK QUANTITY	443	
	H	TOP OF WELL SCREEN D	DEPTH Note	3
		TOP OF WELL SCREEN E	ALEVATION <u>timel</u>	
•		BOTTOM OF WELL SCREE	BNDEPTH Hoos	18
	一目	BOTTOM OF WELL, SCREE	ENELEVATION Imm	1 -]
		SCREENTYPE	3ch 40 lvc	
'8' -i-	cap -	SLOT DIRECTION AND S		020
<i>(</i>	oar'	BOTTOM OF WELL DEPTH	i	-4-bgs
cap :	0.35'	BOTTOM OF BORING GRO	OUTTYPE	
		GROUT QUANTITY		-
		BOTTOM OF BORING DEP	71H	3 ft-bas

CONTRACTOR West HOR MIZE EQUIPMENT CHE 95 DRILL MITHD HSA DIAMETER 89/4"

LOGGER GM

NORTHING **EASTING ANGLE**

REVIEWER

Vertical BEARING

REMARKS: Located approx. 124 E/SE of Away.

COORDINATE SYSTEM: SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



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BOREHOLE RECORD

BORING B-UA START DATE 02-24-04
FINISH DATE 02-24-04 PROJECT ASCONLE

SHEET 1 OF 10 ELEVATION FT

DATUM

LOCATION Huntington But NUMBER SBOZOZ

GE	EOTECH 7/02 BUREHULE RECUI	KU_	NOW	BER	7.00	201	<u></u>			
		T	T			SAM	LES		,	
DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	ELEVATION (A)	NUMBER	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME	COMMENTS
										izsi begin hand awyering.
- - 5 -	CLAMES SILT: Covered bown (2595/2) evoluces with 2x yearnsh brain (2594/6) sit with clay; signify most; microcous; con prostic; soft. TR shows. (0,0,00)	CEY						0.0	Q: 55	13:27 HzAcd drilling from 4ft.
-	teme 24 stare; HC staining black [2.592.5/1] HC+bar	The state of the s	-	X		4/5/4		0,0	13:30	
10 -	chaused sict: Block (2.59 2.5/1) sitt with clong, and stiff; Hesphrotes; high Plastic; urch (oily)		-	X		¥3/4		76.0	17:75	·
	SAND: Black [2.542.5/1] for sond stringer; HC sotus CLA4: Black [2.542.5/1] for sond stringer; HC sotus Mighly Stiff; HC schusted; strong HC edor; most (0,0,100)	tes. CL		<u> </u>		1/14		11.0	13: <i>3</i> 5	
15 -	JAND: greenish gray (cuty 5/5Gy) factomed sand with TR csc sand TR fine gavel (<39M); He odor survey; dry (TR, 100,0)	<u>3</u> ρ		X		1/2 /A	ľ	5.0	3:42	
20 -	JCLANES SILT: Blzck (25325/13514 with class sole to mod Stiff; mod Plzstic; strong Hc obor; moist	cu/ML	-	Jion		1/2	é	,0	5.43	
-	rence 25 about; TR shall fizignents;			X	/	2/5	V š	} = {\bar{1}}	i:47	
25 -	thery SAND: viak greenth grent (Green 3/564) time rand of lite microcous 10% shall fragments 'old the odor; wet; ned softed (0,80,20)	sm	꽃,	X	8/	1/2	٥	.5/1	1:09	
 	- 2021/12/2 to line to used trans; no shall freq,			90	19	12/23	o.	3 4	:3	
30]	ICTOR West Hiszmat NORTHING		REMAR	KS.					-	

EQUIPMENT 4ME 95 DRILL MTHO HSA DIAMETER 8914"

LOGGER GTH

EASTING ANGLE

REVIEWER

Vertical BEARING

COORDINATE SYSTEM:



2100 Main Street, Suite 150 Huntington Beach, California 92648 Tel: (714) 969-0800 Fax: (714) 969-0820

GS	FORM	t
GEOT	ECH1	7/02

BORING BOYA START DATE 02-24-04 FINISH DATE 02-24-04

ELEVATION FT DATUM

SHEET 2 OF 10

PROJECT ASKON LF LOCATION HUMHISTON BON

SYMBOLIC LOG SYMBOLIC LOG CELEVATION (ft) DESCRIBLY TYPE TIME TIME TIME TIME TIME TIME TIME TIM	
DEPTH MATERIAL Q S S S S S S S S S S S S S S S S S S	
SYMBOLIC LOG SYMBOLIC LOG SYMBOLIC LOG SYMBOLIC LOG SYMBOLIC LOG TYPE BLOWS PER 6" RECOVERY (%) TIME TIME TIME TIME TIME TIME THERE THERE SYMBOLIC LOG SYMBOLIC L	
10-31 & @ 14-20 = 1 22/24/2014 Dall 11 20 Dall 11 Stapped @ 3/4 1	σ.
35 -	
40 -	
45 -	
50 -	
55 -	
CONTRACTOR WAS HORNES REMARKS:	

CONTRACTOR WASH HOZMON EQUIPMENT COME 95 DRILL MTHD H5A DIAMETER 894"

LOGGER GTH

EASTING ANGLE BEARING

REVIEWER

Vertical

COORDINATE SYSTEM: SEE KEY SHEET FOR SYMBOLS AND ABBREMATIONS

LATER CETTH OESCAPTION DESCAPTION	P 1	924 Anacapa S Santa Barbara, Tel: (805) 897-3	Street, Suite 4A a, California 9310 -3800 Fax (805)	01 6) 899-8689	BORING B-4A SHEET 1 OF START DATE 02-24-04 GROUND SURF. FT. FINISH DATE 02-24-04 TOP OF CASING FT. PROJECT Ason Uf LOCATION Anthogon Buch Datum NUMBER 380202
7 by EMC 1/2 simal 1 by Environce much bent chies 2 by Pethonic commit type 1/D 5 2" 0.022 br 2 by (0.42-0.022) x 17' : b. 8 br 2 bent days (0.42-0.022) x 17' : b. 8 br 3 bent days (0.42-0.022) x 12' : u. 8 br 3 bent days (0.42-0.022) x 12' : u. 8 br 4 br 5 consider 2 br 4 br 5 consider 3 br 6 br 6 br 6 br 6 br 6 br 6 br 7 br 6 br 7	LAYER DEPTH	MATERIAL DESCRIPTION	 T	T	RISER LENGTH 5H LOCKING COVER RISER HEIGHT 3.23 SUPCAP RISER DIAM. 81/2"
WELL CASING DAMETER 2 WELL CASING TYPE SUM YOU'VE TOP OF BENTONTE SEAL CHANTITY ~ 1 bog. TOP OF SAND PACK CHANTITY 5 4.3 TOP OF WELL SCREEN DEPTH 1.0 SAND PACK TYPE RANC "21/12 SAND PACK CHANTITY 5 4.3 TOP OF WELL SCREEN BEVATION 1 mis — SCREEN TYPE 5.04 40 PVC SCOPE O.355 SOUTH COST OF WELL DEPTH 1.00 SOUTH COST OF WELL DEPTH 1	,	7 mgs lmc+2/12 sm.	BEAH, CLIFES	it bandonite	CONCRETE TYPE SHAIR FROM CONCRETE BORING DIAMETER 834"
bent deps: (0.42-0.022) x 2' = 0.8 ft 3 quantical : (0.42-0.022) x 1'' = 4.8 ft 3 10- 10- 10- 10- 10- 10- 10- 10	1	2"= 0.022ft2 8\$4"= 0.42.42		Pottons Lema	GROUT QUANTITY 9 bags
BENTONTE SEAL CLANNITY TOP OF FLIER SAND DEPTH FLIER SAND TYPE FLIER SAND QUANTITY TOP OF SAND PACK DEPTH 14 SAND PACK TYPE PANC "2/rv SAND PACK QUANTITY TOP OF WELL SCREEN DEPTH BOTTOM OF WELL SCREEN DEPTH SCREEN TYPE SCREEN TYPE SCREEN TYPE SUIT OF OF WELL SCREEN DEPTH BOTTOM OF WELL SCREEN DEPTH BOTTOM OF WELL SCREEN DEPTH SCREEN TYPE SUIT OF OF WELL SCREEN DEPTH BOTTOM OF WELL SCREEN DEPTH BOTTOM OF WELL SCREEN DEPTH SCREEN TYPE SUIT OF OF WELL SCREEN DEPTH BOTTOM OF WELL SCREEN DEPTH SCREEN TYPE SUIT OF OF WELL SCREEN DEPTH BOTTOM OF WELL SCREEN DEPTH BOTTOM OF WELL SCREEN DEPTH SCREEN TYPE SUIT OF OF WELL SCREEN DEPTH BOTTOM OF WELL SCREEN DEPTH BOTTOM OF WELL SCREEN DEPTH SCREEN TYPE SUIT OF OF WELL SCREEN DEPTH BOTTOM	-	bent dips: (0.42-0.012) x 2'=	0.863		WELL CASING TYPE 400 PVC TOP OF BENTONITE SEAL 124-695
FILTER SAND QUANTITY TOP OF SAND PACK DEPTH SAND PACK TYPE SAND PACK QUANTITY SAND	10 -			went w	BENTONITE SEAL QUANTITY ~ 1 bag.
TOP OF WELL SCREEN DEPTH LINGS /6 TOP OF WELL SCREEN ELEVATION LINES BOTTOM OF WELL SCREEN ELEVATION LINES BOTTOM OF WELL SCREEN ELEVATION LINES BOTTOM OF WELL SCREEN ELEVATION LINES SCREEN TYPE Sch 40 PVC SCREEN TYPE Sch 40 PVC BOTTOM OF WELL DEPTH 31 H. BOTTOM OF WELL DEPTH 31 H. BOTTOM OF BORING GROUT TYPE	1		-	16	FILTER SAND QUANTITY — TOP OF SAND PACK DEPTH 14
BOTTOM OF WELL SCREEN ELEVATION AND SZE SCHOOL OF WELL DEPTH 31 H. BOTTOM OF WELL DEPTH 31 H. BOTTOM OF BORING GROUT TYPE	15 -			#2/n send	TOP OF WELL SCREEN DEPTH LOGS /6
BOTTOM OF WELL DEPTH 31.4. CEP = 0.35' BOTTOM OF BORING GROUT TYPE	\$ 				BOTTOM OF WELL SCREEN ELEVATION HITEL - SCREEN TYPE SULL 40 PVC.
	27			,,	0,35" BOTTOM OF WELL DEPTH 314. BOTTOM OF BORING GROUT TYPE
ALL MTHD H5A ANGLE Vertical		R 83/4"	BEARING -	,	COORDINATE SYSTEM: SEE KEYSHEET FOR SYMBOLS AND ABBREVIATIONS



2100 Main Street, Suite 150 Huntington Beach, California 92648 Tel: (714) 969-0800 Fax: (714) 969-0820

BORING B. NW-19 START DATE 02-27-04 FINISH DATE 02-27-04 PROJECT ASCONLE LOCATION Wasterglan Belin

SHEET 1 OF 10

ELEVATION FT DATUM

GS FORM: GEOTECH1 7/02

BOREHOLE RECORD

NUMBER 580202

comments and ausering of yell is water framing in from , but through gravels. dolling e 10:23 Com 4 fe
d wate howing in from . on through gravels.
dijuing e 10:23 Com 4 f
2000 500 500 500 500 500 500
n PID out
umabled 70=19f4.
uth of LF SE property
2

DRILL MTHO #5A DIAMETER S LOGGER GTH

REVIEWER

ANGLE Vertical BEARING

and approx 7ft E. of west curb a gutter on Magninto

COORDINATE SYSTEM: SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

GS FORM: WELL SB 1/02	GEO SYNTEC CONS 924 Anacapa Street, Suite Santa Barbara, California: Tel: (805) 897-3800 Fax: (WELL REC	94A 93101 (805) 899-8689	BORING BY MW-19 SHEET 1 OF 1 START DATE 02-27-04 GROUND SURF. FT. FINISH DATE 02-27-04 TOP OF CASING FT. PROJECT ASCONLE LOCATION HWHTIGFON BY DATUM NUMBER 580207
LAYER DEPTH (FT)	MATERIAL DESCRIPTION	WELL LAYER DEPTH (FT)	RISER LENGTH LOCKING COVER RISER HEIGHT SUP CAP RISER DVM. PROTECTIVE RISER CASING HEIGHT - D.45 f
brent d	2 42 5 42 × 16' = 5.6 43 4: 0.35 42 × 16' = 5.6 43 4 9	19-car CAP=0.351	GROUT QUANTITY
CONTRACTOR WAS EQUIPMENT CAME DRILL MTHD HSA DIAMETER BAN LOGGER GTY		Vertical P	EMARKS: LOCALED ZAPOX. 67 ST GONTH OF LF SCUTHCOST Oroperty line and approx. 7 St East of west curb agulter on Magnolia. DORDINATE SYSTEM: EKEYSHEETFOR SYMBOLS AND ABBREMATIONS

WELL SB SB.GPJ GEOSNTEC.GDT 2/14/03



2100 Main Street, Suite 150 Huntington Beach, California 92648 Tel: (714) 969-0800 Fax: (714) 969-0820

GS FORM: ROCK/CORE 7/02

ROCK/CORE BLANK1, GPJ GEOSNTEC. GDT 8/1/02

BOREHOLE LOG

BORING \$ MW-20 START DATE 02-23-04 FINISH DATE 02-15-04 PROJECT Again LOCATION knithryton Buy

NUMBER 280202

GROUND SURF.

SHEET 1 OF 18 FT, FT.

TOP OF CASING

DATUM

				T	7	7					
		b					, `	SAMPÜ	ES	·	
DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	STRUCTURE/ BEDDING/ GROUNDWATER	WELL LOG	81 any count	NUMBER	TYPE	REC (%) CR (%) REC * 4D RC (%)	PID READING (ppm)	TIME	COMMENTS
											08:00 Rigin honden
5	Souty sitt - Blarin [11484/3] till with 40% fine 10m or ith TR submined fine to mick 9 pured (50mm); signey moist; low \$1000000000000000000000000000000000000	SM			13/12					8:17 B26	ss. Dr Basin Zugerin with (sg. (slow)
10 -	Hydrocarbon (uc) soaked; oder color cha black [2542-5/1]				2/18/22	X			/-1	08:45	المادة الآنام في الآنام في الآنام في الآنام
15 -	ceAy - v. dk gran [2.593/1] clan; He abor high plestic; solt i v. most	CL			1/3/,	X		2	30	9:00	that provides competed with land on surger.
20 -	12mc 75 26ove		·		% \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	X		٤	5 0	3.07	to ang sompte concerts
	2011 to above			3	12/4			5	5 9	in	
	colorchy: block[25y25/1]: mod stiff loved mosture; man plostic; TR shells; TR anco.			ч	5/4	6		بره	y on	23	
5.0	Un Sand-black [25725/] The sandorf 5:1451 microcours; To be show from (0,70,30); slepal HC odor; love plastic; new sories				723/30			0,:	2 07	750	
NTRAC	CTOR WEST HOZWIST NORTHEND ENT CME 95 EASTING	3	REMARK	S: Loca	eáld m	10 {1	E. 0	F 8-4	<u>'</u>	<u> </u>	
ILL MI	HD HSA ANGLE R HAW 8" BEARING	Ve	ntical	-	•	-7				•	
METE			1 1								



2100 Main Street, Suite 150 Huntington Beach, California 92648 Tel: (714) 969-0800 Fax: (714) 969-0820

GS FORM: ROCK/CORE 7/02

BOREHOLE LOG

BORING BEMW-20 START DATE 02-23-04 FINISH DATE 02-75-04 PROJECT Asconi

LOCATION Hortragton Buy

NUMBER 580202

GROUND SURF. TOP OF CASING

SHEET 2 OF 16 FT.

DATUM

		(5						SAMPL	ES		
OEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	STRUCTURE/ BEDDING/ GROUNDWATER	WELL LOG	ELEVATION (ft)	NUMBER	TYPE	REC (%) OR REC & ROD (%)	PID READING (ppm)	TIME	COMMENTS
	have of share				7/9/11	X			0,1	4.76	
35 -	increase in AMN 1720: bow to med hand, microson 570 Souly frog. (0,00,20) whol chop: Sk greensh greylacey 14,				15/23/34	X			0.0	A-40	
	sances above; v. mossf		볼		12/33.	X			0.0	09.46	/*
40 -	Jeme 25 200ve; returnes; 50941 HC abol?				19/289_		٠		>.o		- strapped drilling: freperatur reaming Resume dilling@08 on ca-25.04
15 -	AUDI OK GRECILAT GREY (GILT) 4/1043 Live Smd: 57. SMII Fag, microcors Slight HC odor? (0, 100,70); TR SiHz, vit	3P			13/1/2	X		c	2,0 8		
	tra shell fregs; 5% kines (0,95.5)			•	1/5/17	X		c	2.0 8	:49	
3	art 29 abare		1971 - 197		1/1/19 /			c	20 0	355	·
5.	ane 25 aboves 5% Shell frag			Į:	Shuly !			0.	,0 9.	03	
52	nc 25 store; the shall fragments,				1/5/	7		o.	0 9:0	o.6	
1	arosa side to fine to ned souds; TR sills				19/23-10			يره	09;	13	

DRILL MITHD 115A

DIAMETER 8"

LOGGER GTY

EASTING ANGLE **BEARING**

REVIEWER

Vertical

COORDINATE SYSTEM:



2100 Main Street, Suite 150 Huntington Beach, California 92648 Tel: (714) 969-0800 Fax: (714) 969-0820

GS FORM: ROCK/CORE 7/02

BOREHOLE LOG

BORING B 200-20 START DATE 02-23-04 FINISH DATE 02-25-04

GROUND SURF. TOP OF CASING

SHEET 3 OF 10 FT. FT.

PROJECT Ascon LOCATION HINHIGTON BUS DATUM NUMBER 530202

		T	T		7 - 	T	 		SAMPL	ES		
)(ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	STRUC BEDI GROUNE	DING/	WELL LOG	ELEVATION (#)	NUMBER	TYPE	REC (%) OR REC & ROD (%)	PID READING (ppm)	TIME	COMMENTS
, , ,	were some some (O.TR was	CLY	·•a· • .	ï			X			0,0	09:22	
65 -	101111111111111111111111111111111111111	50		ويودون ويود		12/14/	Jod			0,0	%: <u>Z</u> 9	·
1	1 m filts (0,95,5); soft; low plastic 52 shell fing			·		17/19/	Pio			0.0	9=34	
70, -	SILTY SAND: 3 & TREATH GREY (GUEY) 4/104) Line SOND with 5:1+ (0,75,25); low \$15546; very microcous; TR shall freq.	50,				11/1/9-	X			2,0 5	1.40	
	out skachiman, lacent 4/1003 site with same like 12nd; (0.25,75 microcous; low frythe					1/12/18	X		c	0.0		10 0 74.5 A Stropped
75	10:74.54 A 10:05 on 02/25/2004					**************************************						Lausng
1												
1												
TRAC	TOR WAY HORMAN NORTHING NT CANE 95 EASTING			REMARK	e.							

EQUIPMENT CALE 95 DRILL MTHD HSA

DIAMETER 8" LOGGER GIM

REVIEWER

EASTING ANGLE

BEARING

Vertical

COORDINATE SYSTEM:

		GEO SYNTE 924 Anacapa S Santa Barbara Tel: (805) 897-	Street, Suite 4, California 93	A 101		BORING PLAW-20 SHEET 1 OF START DATE 02-23-04 GROUND SURF. FT. FINISH DATE 02-25-04 TOP OF CASING FT. PROJECT ASOM
11	GS FORM: BLL SB 1/02		LL REC			LOCATION HUNGSTON BOY DATUM NUMBER 180202
LAYER DEPTH (FT)		MATERIAL DESCRIPTION Souther Annulys:		SYMBOLIC LOG	WELL LAYER DEPTH (FT) 2.5°	COCKING COVER RISER FIELDH 2.87 SUP CAP RISER DIAM. B1/2"
5 - 10 - 15 - 20 -	12.5" = 0.41 2" = 0.22 8" = 0.35 4206: [bentchips:[6004504:(2.35-ana x 32 2.35-ana x 32 2.35-ana x 34 2.35-ana x 34 2.35-ana x 34 2.35-ana x 40	42 (Mm) 4 = (4.343) 1 = (4.343) 4 = 5.64	¥	1500 methole 1500 61 41 57 0 0 0 0 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1	GROUTTYPE & POALEND TUPE I/II Hydrogel bentanite GROUT QUANTITY 10 bregs Postland type I/II can WELL CASING DAMETER 2"
					rellesp: 0	BOTTOM OF WELL DEPTH 74 ft. bg s BOTTOM OF BORING GROUT TYPE — GROUT QUANTITY — BOTTOM OF BORING DEPTH 74.5
QUIPMEN		REVIEWER	NORTHING EASTING ANGLE BEARING	Verti	cal	REMARKS: Cousted approx. ~10ft E. of P-4. COORDINATE SYSTEM: SEE KEYSHEET FOR SYMBOLS AND ABBREVIATIONS

GEO
Oro

SYNTEC CONSULTANTS

7	Δ	IL	Y	FI	EL	D.	R	F	P	n	RT	-
---	---	----	---	----	----	----	---	---	---	---	----	---

PROJECT: ASCEN
LOCATION: Huntington Boach PROJECT NO.: 530202 TASK NO.: 20
DESCRIPTION: Develop Will DATE: 5 day 3 month 2004
CONTRACTOR(S): Cress In-Situ Drilling
WEATHER, TEMPERATURE: Sunny - high looks to low 70°s

Time Event
0745 Arrive at HB Mire to sink a Mary 12/12
0800 Drive to Asser Site
0810 Arrive at site - Rich Reynolds RRD one to
We have a fre entry Has Harlanto mesting
0810 Arrive at site - Rich Reynolds is orisite We have a fre entry Has traileate meeting - Hospital Route - Physical Hazards - Site Hx - PPB
- Site Hx - PPB
Monte in
0830 Enter Site - show RR well texations & accessibility
and Drum Storage area
08.45 Drops trailer off at Drum Storage
0845 Dropa trailer off at Drum Storage. 0855 Set up om 1344. Rich decons pump (takes it apart an
Cleans ell somponents)
0940 Begin Surgers a on B-4 A. There is an abundance of Bas near will.
0940 Begin Surging a on B-4 A. There is an abundance of Bes near Walla 0945 ANL staff on its (HSteve House) he directed me the lack gate at all times unloss suct ons there is a reason to have it open for salety is used 1055 Set pump at 2 of bottom of well
to lack gate at all times unless sections
there is a reason to have it open for solety mes
1055 Set pump at 2 off bottom of well
1100 Steve Howe of Guest depart
1230 Just down pump-
1225 Here Howe returns to work and
1235 Steve House Deserte site O da P. 1
1225 Steve Howe returns to work area. 1235 Steve Howe Departs site for day Rich and I go to lunch.
1325 Pelusa La site King
and I go to leunch. 1325 Pelun to site Kich pumps penge water from tank in truck into drums I label drums
Truck in truck into drives I lobel
druns

NAME: L. Morales

PROJECT NO.: \$\\\ 80252 HOURS: \(5 \) C

Sheet No. 1 of 2

GEOSYNTEC CONSULTANTS

DAILY FIELD REPORT

PROJECT: Ascon	
LOCATION: Huntington Boach	PROJECT NO.: <u>\$30202</u> JASK NO.: <u>20</u>
DESCRIPTION: Develop 1 10005	DATE: 3 day 3 month 2004 year
CONTRACTOR(S): Grasa Cusin	udy month _&tot year
WEATHER, TEMPERATURE:	
Truc- Ellout	

Time Event
1360 Setup on MW-20
Rich Decons Waterland maker and
The first water and
1500 Roll out sodiments from bottom of well 1510 Roll Caber decons pump to pure mu + 20 1525 Begin pumping MW-20
1510 R. d. 101
1275 De Cacons pund to pure MW-120
Desir Jumping MW-20
1720 Complete Dun Ring Mul Do P. C. 1. 11
1 tollect
1720 Complete Dumbing Mu 20 - Ret I collect negreny data Rich packs up equipment
10 - and Dump
1955 Depart Site
0.0

NAME: L Moyalos PROJECT NO.: SB0202 HOURS: 4.5

Sheet No. 2 of 2

DAILY FIELD REP

VAILT FIELD REPORT
PROJECT: ASCON
DESCRIPTION: Judop Wells DATE: 4 day March month 2004 year
CONTRACTOR(S): Conga In Sta
WEATHER, TEMPERATURE:
WEATHER, TEMPERATURE:
Time Event
0730 lawire onsite. Rich Reynolds (Developer) has
0740 HES Is I la la La AW-IA for developing
- liaking on uneven ground/cooler/suales holes
- Will be working on sublic street (mi-19) traffic
hazards
750 Rich décens agriquement à six de mars
750 Rich decons equipment prior to work startup 755 Calibrated PID-Bain, work on Mithaw-IA
838 I droved Jeff Gloons-City of UB 14500 for In
838 I shoned Jeff Globons-City of HB inspector-to Moorn of when we would be developing MW-9.
- LCC 1/C and David David Of the Comment of the Com
and packs up to unload purce water at Jum
Storage area
200 Developing Ris is Stuck in reflant. Fich usthes on resolving (Soundbags and dict should under fires)
Lives)
045 Kich is still stuck he called a low fruch that will call
www. When their out rough
10 Best towing Service onsite to four Dig out of leplant by Lw-IA
ceplant by Lus-1A
20 125 cort 100 gervice to gate while Rid uninda
purge water from trail to down s.
ME: (Movales PROJECT NO.: SB0202 HOURS:
Sheet No l _ of _ 2

.03-Projects\HX0157-ASCON GW RI\Revised GW Work Plan\Appendix C\Attachment C \Daily, Eight D...

GEOSYNTEC CONSULTANTS

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-		•	_		•		-	_	_							

PAILY FIELD REPORT	
PROJECT: Ascon	
LOCATION: Huntington Boack DESCRIPTION: DOVED Monitoring Wells	PROJECT NO.: SBO202 TASK NO.: 20 DATE: 04 day March month 2004 ye
CONTRACTOR(S): Gregs Lu-Siter WEATHER, TEMPERATURE:	ye and the second of the secon
Time Event	
1100 Mob to MW-19- Car P 71327 Complete MW-19-	relead on well
1320 Anne Call from	Jell Zukin for Status
1900 Get set upon A41-14	4-
1405 Rich de cons equipm 1410 Begin work on Aw-41	ent from previous well
1540 Complete An-4A	
1630 Depart Oate	orage area to label
······································	
\sim	

ME: L. Maralos	JECT NO.: SBO202 HOURS:

Sheet No. 2 of 2

103-Projects\HX0157-ASCON GW RI\Revised GW Work Plan\Appendix C\Attachment C-1\Daily Field Report dos

Instrument Calibration Log

	Signature:	Signature:	Signature:	Signature:	Signature:
Instrument Information Manufacturer: &se Last Service Date: o2/20/2024 Calibration Gas: ⋝₽₽∪₹√€0€	Daily Calibration Results Name:	Name: 637, 405h, 123	Name: Gay KShiba	Name:	Name: 627, 7, 4051,52
Instrument Name: Mini Rae 2000 PID Serial Number: 110-0e Parameters: 10cc Calibration Procedure:	Date: v2/23/2004 Calibration Result: Notes: F24777 / 4514722 Calibrated	Date: or has to cut a libration Result: Notes: Afternoon Calibration	to do !!	Date: Arthury Calibration Result: **Notes: Phenny Lubason**	Date: 10/15/1004 Calibration Result: Read 110/ph, Notes:

Instrument Calibration Log

Instrument Name: winishee woo fin Manufacturer: RAE Serial Number: 110cv Last Service Date: 02/26/2004 Parameters: Voc Calibration Procedure: Calibration Gas: Roboth/ene	52-15-04 68.41.80 End of day (26),	ate: Calibration Result: Name: Signature:	tte: Calibration Result: Name: Signature:	ite: Calibration Result: Name: Signature:	te: Calibration Result: Name: Signature:
Instr Seri Para Cali	Date	Date: Notes:	Date: Notes:	Date: Notes:	Date: Notes:

STORY TO SECURE

Instrument Calibration Log

Instrument Information Manufacturer: せいい	Daily Calibration Results Whomes Signature: Lang 14.7	Name: Lawra Wirales Signature: Sawra Mylly	Name: Lawre Morales Signature: Source Morale	Name: Signature:	Name: Signature:
Instrument Name: Hociba V -10 Manufacturer: Hociba & Serial Number: 1990 Cl (wantylacturer; Hociba 21/2) Parameters: 10 Conductivity (220, Cond) Calibration Gas: 10.4 Calibration Procedure: 14.000, 2.0 No. 0, 4.49 W. Sleven	Calibration Result: 5.4 Turb # Cond 4.	Notes: Part: 3-3-04 Calibration Result: 2.99 ptt Notes: Prior to punging MWJ-20 C Twite	Notes: 3-4-04 Calibration Result: ptt 3.98	Date: Calibration Result: Notes:	Date: Calibration Result: Notes:

Air Monitoring Results

£ 6

te is

		Comments	Buxgrand Days in	Breakling 7 and to was und					
	20	Response Required	1 1 1						
	Task: Mw-	Wind	Direction 2-2 4/442	4-8/10-20					
Date: 02/23/2004	Monitoring Location/Task: Mw-20 Page 1 of 1	Temperature (F)		64.					
Date	Monit	Humidity	2050	250%					
Instrument(s): Okae Peus / Miris Kar 2000	t / 110-00	Explosimeter (%LEL)	000	0					
M/smad	Serial Number(s): iत्र- 4 छ। चंद्र्य Parameters:	Ram (mg/m3)							
nt(s):ORae	ımber(s): i5	PID (ppm)	0.0	0,0					
Instrume	Serial Numl Parameters:	Time	2845	17:14					

Signature:

Name: 62,

Air Monitoring Results

1 minit	Instrument(s): G 44年 / Wini face 2000 Serial Number(s): '50-4013世 / 110-6 Parameters: if / proc Time (ppm) (mg/m3) (% ロンサ ロ、0 ロンカ ロ ロ ロ ロ ロ ロ ロ ロ ロ ロ ロ ロ ロ ロ ロ ロ ロ ロ		2000 Date: 02/24/2004	/ 110-00) Monitoring I continue		Ton Comments	(%LEL)	(%) Speed R	_	2, CO (12)) 2/5/7	220 66 4.6/2	25 pt /5w	ms/h-E ht 25- 0	16 1/50 O	Siedly cone; frage conferen								
40 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ment(s): & AA; Number(s): AA; Number(s): AA; O.0	中に大学のでは、「一」では、「」に、「「」に、「「」に、「「」に、「」に、「「」に、「「」に、「」に、「「」に、「」に、	1/Minihae 2000		J	+			<i>C</i> !				0 0										,	

400

Air Monitoring Results

		MW-20: 8/11 from 40.4-70.4		Commonte	COMMINGING	melyland	ON reproveding sone	fig o treating days								,			
		-20 : 0111 fr		espor equir	(X/N)										/			A	2 m
				Wind Speed /	Direction		57/5	5.8/5					ایا	1	1				Signature:
	4002/52/20	Monitoring Location/Task:	101	Temperature (F)	6,	1	12	60				W.							S
J. C.	Dale:	Monit	1 age	Humidity	216	0/0/	20%	200											
26 10130		(lo-01)		Explosimeter (%LEL)	0.	0)				/ -						Į.	
1) 03 R		Parameters: LEL / 100-00		Ram (mg/m3)											-			Gar + Yashin	1111/01/12
nt(s): GRAFE / CA	mhow(a).	1110er(s): 15 rs: 2		(ppm)	0,0	0.0	0.0											9	
Instrumer	Serial Mi	Parameters:		Time	07.25	4.92	(0.15		/									Name:	

Air Monitoring Results

					Comments		grito, Bend - Upund	Occapien Zank on ria: P10 poster +1														
		2000		\$ 	<u>~</u>	(X/N)		3									1	/				
	he		ļ	<u> </u>	Speed /	Ulrection	2-4/w-th	のできる					7	0	ک	Y						
	4002/22/20	Monitoring Location/Tack-	/ of /	Temperature	(F)	777		Ž					4	1		/ \						
	Date:	Moni	Page	Humidity	જ	~ 202	2000	200					$\left \frac{1}{2} \right $	/								
	2000	/10-00		Explosimeter (%)	(पञ्चल)	0	0					/										
	WHE / MINI YOR 2000	Serial Number(s): 150-401364/110-00	LEL / PIDNOL	Ram (mo/m3)							/											
nt(s). 6.00	(3): QKM	mber(s): 1	rs: Ce	(maa)	(1)	0.0	1		/													
Instrumer		Serial Nu	rarameters:	Time		9.41	15.00	/														

Signature:

Name:

Air Monitoring Results

	olopine t	Commonto	CAMMATICALLS	Bockgrowyd Workowe	White Andre	who wee	Work Area	Work Arras							
	Layra Doll	Response Required		2	2		~	2							
		Wind Speed/	Direction	3.1 20	1000	_	10/1/20	12.2/N							
Date: 5/4/04	Monitoring Location/Task: Page 1 of	Temperature (*F)													
Date	Monite Page	Humidity													
		Explosimeter (%LEL)		1)	(
		Ram (mg/m3)		-	ļ	1	1								
	Serial Number(s): Parameters: VOCA	PID (ppm)	0.0/0.0	S. CO	0-1	0	۵,۱	,							
Instrume	Serial Number(s): Parameters: \(\subseteq 0 \)	Time	0000	04,60	(790)	1315	2 Î								

Signature:

#8500

Name:

TABLE HASP 8-3

SITE VISITOR RECORD

All visitors are required to sign the visitor log and comply with the HASP requirements.

	Date	Name of Visitor (Print)	Name of Firm (Print)	Purpose of Visit	Arrival Time	Departure Time	
}	2/23/04	TROY ROBINSON	West Horsman	Brop of Babcat	0910	0925	
	2/23/07	Jeff Zakin	Gestantec	Supervisor/RG	12:30	15:49	
-	1/23/4	Frenk Good	DTSC	Fridwork	1:57	15:29	-
	23.0		WEST ADZELLA	Tie Wwark	3:04		
		Mike Baron	- WHD	Prill	7:00		Health is
- }		BillyTrim	W.A.D.	Field work	700	_	526th Meets 3
-	24.04	111/0 3111	Granntec	,- 14	07:00		
4	12464	Steve House	Project Naugsty	Inspiten/obsorvation	08.5	16:07 09:54-3	
	424/04	Frenk Gonzal	Ptsc	Fredmark	10:05	11:43	
- 1 1	124/4	, , , , , , , , , , , , , , , , , , , ,	Dtsc	fieldurk	11:45	12=44	
3	-3-14	Here Howe	PNL	Site four W/Ginano	Ezone	12:35	
3	4+04	Michael Cook	Service)	Tous Developing	1110	1135	
-			97174 Worker Hint Beach	A 744-847-07	50 C		
3	4-04	Luis Radilla	Grage	Additional Trums	1520	1530	
3	16-9	Dave Corden		Orientation wi	0830	1630	
- 1	1	Here Howe	PNC	we section I want	29,40	1230	
5	1604	Crank Gonzala	D75C	Visto Colvin	1044	1300	

510 405/04

TABLE HASP 8-3

SITE VISITOR RECORD

All visitors are required to sign the visitor log and comply with the HASP requirements.

Date	Visitor (Print)	Name of Firm (Print)	Purpose of Visit	Arrival Time	Departure Time		
2/13/0		GeoSquiec	Site Walk	0940	1125		
1 1 /	Frank Grydes	DISC	(uspection/ Observation	1325	1530		
- ₹ V.	Mark Grivetti	7	site visit	1000	1025		
1.1 7	Mile Rearden	GeoSyntec	Site Usit	100	1025		
4/15/04	Court Courgles	DISC	Observation	1050	1138		
4/19/04	Frank Gonzalo	DISC	a servation	1100	1257		
4/20/04	Rafact	Surreyour	installed wells	930	(235		
,	Matt Esperite	Coo Syntee	Deliver Excepted	1150	1200		
4/22	Dave	TNL	Coordinating replacing trailers	0915 Harree.	trailer		
4172	Matt Esposite	Goodyntec	Deliveringt	1400	1410		
					[

ATTACHMENT C MONITORING WELL PERMIT

ORZUGE COUNTY HEALTH CARE AGENCY ENTROHMENTAL HEALTH DIVISION

2009 E. EDINGER AVENUE SANTA ANA, CA 92705-4790

(714) 667-3600

CITY	SANA ANA CA 92705.4780 FAX: 1714/ 972-0749									
Huntington Beach	DATE									
WELL LOCATION (ADDRESS IF AVAILABLE)	TYPE OF WELL (CHECK) PRIVATE DOMESTIC D MONITORING PUBLIC DOMESTIC D SOIL BORING IRRIGATION D OTHERS									
Asion Landfull site (see loca	tran figure									
THE OF TRACE OF THE PARTY OF TH										
ASCON SITE RESPONSIBLE Parties	TYPE OF WELL (CHECK)									
	PRIVATE DOMESTIC D MONITORING									
one Pointe Drive Suite 320	PUBLIC DOMESTIC D SOIL BORING D									
RCC (A TELEPHONE	IRRIGATION O OTHER									
NAME OF CONSULTING FIRM	·									
Geosyntec Consultants, Inc	CATHODIC TOTAL NUMBER 5									
BUSINESS ADDRESS	A. WELLS - SUBMIT & WELL CONCERNION									
924 Anacapa St Suite 4A	A. WELLS - SUBMIT A WELL CONSTRUCTION DIAGRAM (INCLUDE DIMENSIONS)									
CITY ZIP TELEPHONE										
Santa Subura 93101 305-897-380	B. SOIL BORINGS AND PRODEC									
NAME OF DHILLING CO. C-57 LICENSE NO. EAS \$ 120	SOL									
WEST MAZINAT #819548	TOTAL DEPTH									
Anchem CA 92805 714-929 (85)	SEALING MATERIAL									
	C. PROPOSED START DATE 2-23-04									
DIAGRAM OF WELL SITE (Use additional sheets and/or attachments)	I hereby geree to comply in a									
	I hereby agree to comply in every respect with all requirements of the Health Care Agency and with all ordinances and laws after Care Agency and with all									
see attacked maps	-1									
V	reconstruction and destruction including the									
	The sometiment the integrity of all dignificant mante									
	ing zones.									
	2-17-04									
	APPUCANT SUCHATURE DATE									
	Jeff Zukin									
	PRINT NAME									
STE PLAN ATTACHED	805-897-3800 /805-899-8689									
	PHONE NUMBER FAX NUMBER									
OR ACCOUNTING USE ONLY: DISPOSITION OF PERMIT (DO NOT FILL IN):										
HSO NO. 184814 CHECKNO7010										
DATE 2-20-04 11 9480	APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:									
NOTE MA	A. NOTIFY THIS AGENCY AT LEAST 48 HOURS									
PPROVAL BY OTHER AGENCIES:	PRIOR TO START. 2/23/04									
THOTAL BY OTHER AGENCIES;	PRIOR TO SEALING THE ANNULAR SPACE OR FILLING OF									
JURISDICTION	THE CONDUCTOR CASING.									
REMARKS	8. SUBMIT TO THE AGENCY WITHIN 30 DAYS AFTER									
	COMPLETION OF WORK, A WELL COMPLETION REPORT									
	AMOJOR DRILLING LOGS, PLEASE REFERENCE PERMIT NO.									
	C. A SECURE ALL MONITORING WELLS TO PREVENT YAMPERING.									
	D. CI OTHER									
	DENIED									
	Lan Golfenson 3 hadrand									
	DEFONT ESVED BY DATE									
WITHORIZED SIGNATURE DATE	134 YOKOYAMA (714)667-3657									
WHEN SIGNED BY DRANGE COUNTY HEALTH OAD	PRINT NAME									

City of Huntington Beach Permit #: 04-133 Reporting District #: 474 Public Works Department PW File #: Receipt #: PERMIT FOR RIGHT-OF-WAY ENCROACHMENT Construction ○ Obstruction ○ Bin Obstruction O Excavation Project Location: Magnolia , SWC @ Hamilton Description of Work: Construct test well Item Description Item ID Unit Price Quantity **Extended Price** Traffic Control Setup \$625,00 each 1.00 \$625.00 610 Abandon / Construct Monitor (Test) Well \$625.00 each 1.00 \$625.00 **Construction Total** - GIS / Survey points \$1,250.00 Construction Total x 8% \$100.00 Additional Admin. Fees \$0.00 Administration Fee \$227.00 **Total Cost** \$327,00 Q Ε М Any trench work 5 feet and deeper, requires a Permission is hereby granted to applicant to perform the above described work in accordance with shoring plan signed and stamped by a registered approved plans and specifications furnished or herein made reference to. 48 hours advance notice. Civil Engineer. must be given prior to commencement of any phase of this work (telephone (714) 536-5431 for Engineering or (714) 536-5921 for water). A copy of a valid permit and signed plans must be kept at the project site at all times while work is in progress. Chapter 10.16 and 12.24 of H.B.M.C. "Traffic Control" Cash Deposit Required O Yes shall be enforced. No THE UNDERSIGNED APPLICANT CERTIFIES: Amount: Receipt #: 1. I am properly licensed as required by the City of Huntington Beach and State of California, and certify that in the performance of work for which this permit is issued I shall not employ any person in violation of Other Fees the workers compensation laws of the State of California, and - Water Inspection Fee - \$150 2. I have read this application and all statements hereon are correct and complete. I agree to perform all work in accordance with the standard plans and specifications on file with the Director of Public Works. Al For Official Use Only USA markings will be removed by the applicant upon completion of work 3. I will guarantee all work performed under this permit for a period of one year from the date of fina acceptance. Failures will be corrected to the satisfaction of the Director of Public Works within two weeks Traffic Control Plan Required O Yes No l after notification. City of Huntington Beach Traffic Business Name: GeoSyntec Consultants Control Standard Plan No.: ______ Business Address: 621 NW 53rd St, #650 Date Issued 25-Feb-04 Boca Raton Business Phone #: (Expiration Date: 25-Apr-04 Emergency Phone #: () ____ State License #: Issued By: City License #: Von Holle, J. Printed Signature Inspection Date Inspector Preliminary Printed

ATTACHMENT D BOREHOLE LOGS AND WELL CONSTRUCTION DIAGRAMS



924 Anacapa Street, Suite 4A Santa Barbara, CA 93101 (805) 897-3800

GS FORM: WELL BORE 01/04

BOREHOLF LOG

BORING

AW-1A

SHEET 1 OF 1

START DRILL DATE Feb 24, 04 ELEVATION DATA:

FINISH DRILL DATE Feb 24, 04 LOCATION Huntington Beach , CA

GROUND SURF, 9.67 ft TOP OF CASING 12.46 ft

PROJECT Ascon LF

DATUM NAVD88

WEL	L BORE 01/04	BOREI	IOLE LO	G	NUMBER	SB0202							MAVD88
	D	ESCRIPTION	(0)			_	<u> </u>	7	SAN				
(ft-bgs)	1) Unit/Formation, 2) Soil/Rock Name 3) Color 4) Moisture 5) Grain Size 6) Percentage	Mem.7) Plasticity	GRAPHIC LOG	WELLI	GROUNDWATER OR STRUCTURE	ELEVATION (ft)	SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME (00:00)	COMMENTS 1) Rig Behavior 2) Air Monitoring
	<u>FILL</u>			9/4 27		9							Began hand augering @ 07:39
5	siten itayinents: tr	(SM): light olive brown t with little fine sand; 30% ace plant fragments; trac 0,80); no: plasticity	° 9	\$		8 7 7 6 5 5 1	-		6 8 9	100	0.0	07:42	
† "	CLAY (CL):light h	ne sand (0,35,65); rown [2.5Y 5/3] clay gravel; stiff, high plasticity				3 2				00	0.0)7:45	Began to drill @ 07:47
10	99'-color change t 2.5Y 4/2]; micaced	o dark greyish brown ous; mottled				0 -1 -1			4 3 5 6	80 (0.0	7:48	Sampler plugged-low recovery.
4/1 silt	10Y} very moist; f f(0,95,5); 30% sh	een grey [GLEY1 ine sand with very little ell fragments; sticity; well sorted				-2 -3 -4		1	8 3 10 12	0 0	.0 07		Sampler plugged-low recovery. @13'-Encountered groundwater. Drill
15 - @1	15'-becomes satu	rated				-5 -6 -7		9	5 10	0 0.	0 08	S	stopped to wait for ecovery. Resumed stilling @ 08:20.
i med	8'-Increase in gra dium- grained sar ted; trace of shell	ain size; fine- to nd (0,100,TR); well fragments; saturated				-8 -9 -10		18	8 100	0.0	08:	30	
						-11						T de	erminated drilling; Total epth = 20'
25						-13 -14 -15							
						-16 -17							
io						-18 -19 -20						***	
ONTRACT QUIPMENT RILL MTHE	DHSA	EAS	RDINATE SY	899.81 'STEM;	NOTES:		<u> </u>						
AMETER GGFRGT	8.75 inches	POET / I POLA (EPO (A)	OCS Bechn	nark									



924 Anacapa Street, Suite 4A Santa Barbara, CA 93101 (805) 897-3800

GS FORM: WELL COMP AG 01/04

WELL CONSTRUCTION LOG

BORING

AW-1A

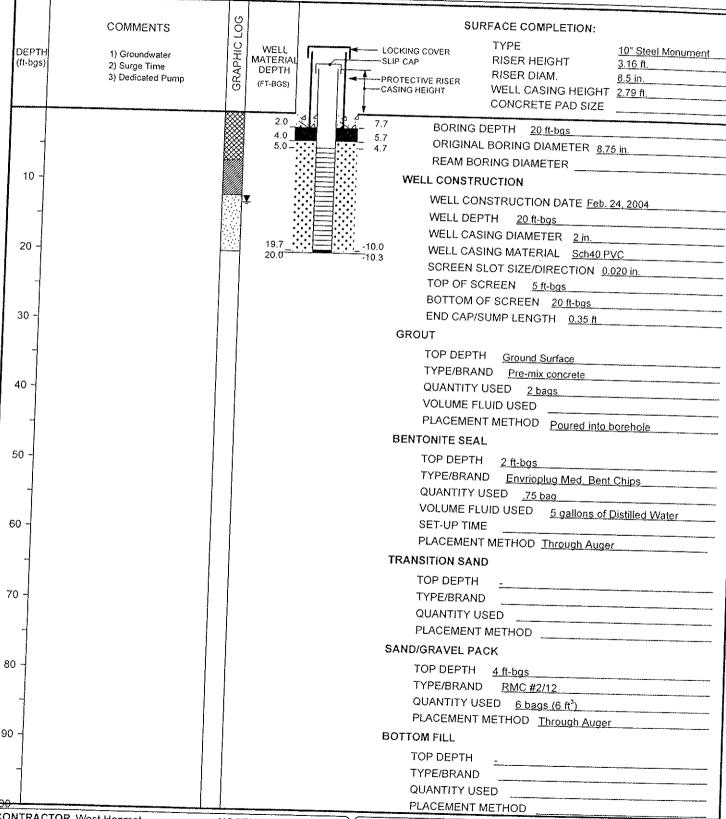
SHEET 1 OF 1 START DRILL DATE Feb 24, 04 ELEVATION DATA:

FINISH DRILL DATE Feb 24, 04

LOCATION Huntington Beach, CA

PROJECT Ascon LF NUMBER SB0202

GROUND SURF. 9.67 ft TOP OF CASING 12,46 ft DATUM NAVD88



CONTRACTOR West Hazmat EQUIPMENT CME 95 DRILL MTHD HSA DIAMETER 8.75 inches LOGGERGTY

NORTHING 2183561.02 **EASTING** 6037899.81 COORDINATE SYSTEM: OCS Bechmark

DEDICATED PUMP SYSTEM:

CONTROLLER TYPE:

TYPE/BRAND: MODEL:



924 Anacapa Street, Suite 4A Santa Barbara, CA 93101 (805) 897-3800

BORING

AW-4A

SHEET 1 OF 1

START DRILL DATE Feb 24, 04 ELEVATION DATA: FINISH DRILL DATE Feb 24, 04

LOCATION Huntington Beach , CA

GROUND SURF. 6.88 ft TOP OF CASING 9.78 ft

PROJECT Ascon LF

WE	GS FORM: LL BORE 01/04	BOREHO	LE L	OG		PROJECT NUMBER	Ascon SB020				ı	DATU	M NAVD88
	_ n	ESCRIPTION					7	L		SAM	LE		T T T T T T T T T T T T T T T T T T T
DEPTH (ft-bgs)	1) Unit/Formation, 2) Soil/Rock Name 3) Color 4) Moisture 5) Grain Size 6) Percentage	Mem.7) Plasticity	GRAPHIC LOG	WELL LOG		INDWATER OR UCTURE	ELEVATION (ft)	SAMPLE NO.	TYPE		RECOVERY (%)	TIME (00:00)	COMMENTS 1) Rig Behavior 2) Air Monitoring
	FILL							-	-		٩	+	Began hand augering @
	inte-to coarse-gri rounded sand with subangular to sub trace silt (5,95,TR iMPACTED FILL @6-Silty CLAY (M moist; clay with so moderate stiff, mod hydrocarbon odor;	IL-CL): black [2.5Y 2.5/1]; me silt (0,0,100); derate to high plasticity; staining					6 5 4 3 2 1 0			3 60 9		10:34	10:25
10 - 1	nydrocarbon odor;	rated; fine sand with little ceous; 5% shells; no well sorted sands		¥			-2 -3 -4			6 60 7 8	0.0	ĺ	@9'-Encountered groundwater. Sampler plugged.
15 - @m	7107]; saturated; fi 0.100,TR); 5% she ydrocarbon odor; r 015'-Increase in or.	micaceous (-6 -7 -8 -9		10 16	0 60			Sampler plugged. Sampler plugged.
20							-11 -12 -13		13 14 15		0.0 1		Filled to 18' and
							-14 -15 -16 -17					S	ampled to 19.5°.
25							-18						
							-20 -21 -22						
ONTRAC	TOR West Hazn						-23						
DUIPMEN		nat NORTH	ING 218		TON	ES:		- /				·	}

EQUIPMENT CME 95

DRILL MTHD HSA DIAMETER 8. DIAMETER 8.75 inches EASTING 6036756.21 COORDINATE SYSTEM: OCS Bechmark



924 Anacapa Street, Suite 4A Santa Barbara, CA 93101 (805) 897-3800

GS FORM: WELL COMP AG 01/04

WELL CONSTRUCTION LOG

BORING AW-4A

START DRILL DATE Feb 24, 04 ELEVATION DATA:

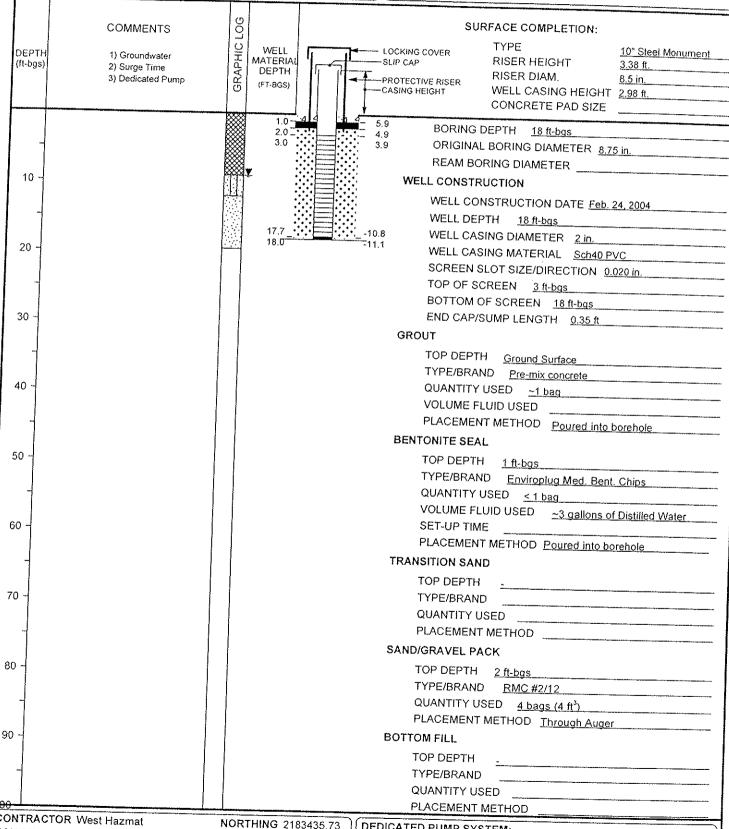
FINISH DRILL DATE Feb 24, 04 LOCATION Huntington Beach , CA

PROJECT Ascon LF NUMBER SB0202

SHEET 1 OF 1

GROUND SURF. 6.88 ft TOP OF CASING 9.78 ft

DATUM NAVD88



CONTRACTOR West Hazmat EQUIPMENT CME 95 DRILL MTHD HSA DIAMETER 8.75 inches LOGGERGTY

EASTING 6036756.21 COORDINATE SYSTEM: OCS Bechmark

DEDICATED PUMP SYSTEM:

TYPE/BRAND: MODEL: CONTROLLER TYPE:



924 Anacapa Street, Suite 4A Santa Barbara, CA 93101 (805) 897-3800

GS FORM: WELL BORE 01/04

BOREHOLE LOG

BORING

B-4A

SHEET 1 OF 2

START DRILL DATE Feb 24, 04 ELEVATION DATA:

FINISH DRILL DATE Feb 24, 04

GROUND SURF. 19.56 ft TOP OF CASING 22.16 ft

LOCATION Huntington Beach , CA PROJECT Ascon LF

DATUM NAVD88

		GS FORM: LL BORE 01/04	BOREHO	LE LOG		NUMBER						DAT	JM NAVD88
DEF (ft-b		1) Unit/Formation	ESCRIPTION Mem.7) Plasticity 8) Density/Consistency 9) Structure 10) Other (Mineralization, Discoloration, Odor, etc.)	GRAPHIC LOG		GROUNDWATER OR STRUCTURE	ELEVATION (#)	SAMPLE NO.	TYPE	BLOWS PER 6" NV		PID READING (ppm)	COMMENTS 1) Rig Behavior 2) Air Monitoring
10		[2.57 5/2] with dar 4/6]; slightly moist micaceous; low plant micaceous	oily); moderate stiffness; ted; high plastic fine sand stringer con saturated black [2.5Y 2.5/1]; moist; plasticity; moderate to bon saturated; strong In grey [GLEY1 5/5GY]; sand with trace of the gravel (63mm)				1: 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3	3 7 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	4 111 4 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	600 76	0.0 13:35 0 13:35 0 13:42	Started drilling from 4' @ 13:27
25	stift hydrogen stift hydrogen stift	ist, sit with ctay; sifeness; moderate particles, sit with ctay; s	lasticity; strong noist; trace shelf dark greenish grey fine sand with silt 10% shell fragments; Il sorted		¥		1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9 -10		36 8 8 9 10 18 23	100	13.0	14:09	@23.5'-Encountered proundwater,
		TOR West Hazm	NORTHII	NG 218379	8.39	NOTES:							

EQUIPMENT CME 95 DRILL MTHD HSA DIAMETER 8.75 inches

EASTING 6036903.70 COORDINATE SYSTEM: OCS Bechmark

DIAMETER 8



924 Anacapa Street, Suite 4A Santa Barbara, CA 93101 (805) 897-3800

GS FORM: WELL BORE 01/04

BOREHOLE LOG

BORING

B-4A

Section .

SHEET 2 OF 2

START DRILL DATE Feb 24, 04 ELEVATION DATA: FINISH DRILL DATE Feb 24, 04

GROUND SURF. 19.56 ft

LOCATION Huntington Beach , CA PROJECT Ascon LF NUMBER SB0202

TOP OF CASING 22.16 ft DATUM NAVD88

	BONE 01/04			NUMBER	SB0202	<u> </u>						
	DESCRIPTION	(3					,	SAN	/PLI			
DEPTH (ft-bgs)	1) Unit/Formation, Mem7) Plasticity 2) Soit/Rock Name 8) Density/Consistency 3) Color 9) Structure 4) Moisture 10) Other (Mineralization, 5) Grain Size Discoloration, Odor, etc. 6) Percentage	GRAPHIC LOG	אפרר רספ	GROUNDWATER OR STRUCTURE	ELEVATION (ft)	SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME (00:00)	COMMENTS 1) Rig Behavior 2) Air Monitoring
- - - - - -					-11 -12 -13 -14			17 21 3	100	0.7	14:20	Drilling stopped @ 31', total depth
35					-15 -16 -17 -18							
40					-19 -20 -21							
,					-22 -23 -24	***************************************						
45					-25 -26 -27							
.0					-28 -29 -30				W			
					-31 -32 -33							
					-34 -35 -36							
					-37 -38							
1			Ì		1				ļ			ļ.

RACTOR West Hazmat EQUIPMENT CME 95 DRILL MTHD HSA DIAMETER 8.75 inches DIAMETER &

NORTHING 2183798.39 \ NOTES: **EASTING** 6036903.70 COORDINATE SYSTEM: OCS Bechmark



924 Anacapa Street, Suite 4A Santa Barbara, CA 93101 (805) 897-3800

GS FORM: WELL COMP AG 01/04

WELL CONSTRUCTION LOG

BORING

B-4A

SHEET 1 OF 1

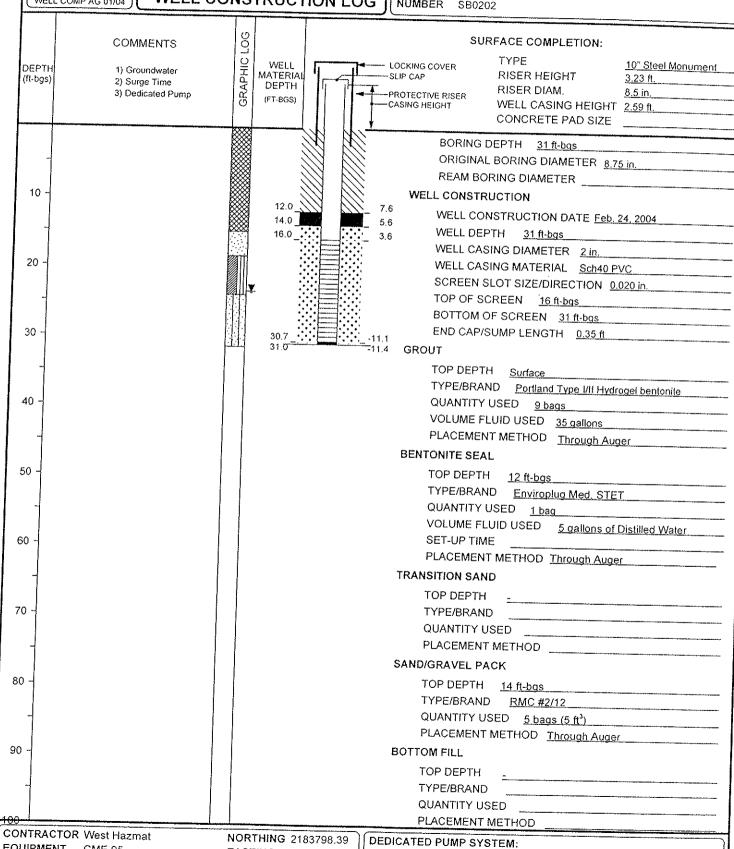
START DRILL DATE Feb 24, 04 ELEVATION DATA:

FINISH DRILL DATE Feb 24, 04 LOCATION Huntington Beach , CA

GROUND SURF. 19.56 ft TOP OF CASING 22.16 ft

PROJECT Ascon LF NUMBER SB0202

DATUM NAVD88



EQUIPMENT CME 95 DRILL MTHD HSA DIAMETER 8.75 inches LOGGERGTY

EASTING 6036903.70 COORDINATE SYSTEM: OCS Bechmark

DEVIEWED INT

TYPE/BRAND: MODEL:

CONTROLLER TYPE:



924 Anacapa Street, Suite 4A Santa Barbara, CA 93101 (805) 897-3800

GS FORM: WELL BORE 01/04

DIAMETER 8.75 inches

DIAMETER 8

BOREHOLE LOG

BORING

MW-19

SHEET 1 OF 1

START DRILL DATE Feb 27, 04 ELEVATION DATA: FINISH DRILL DATE Feb 27, 04

GROUND SURF. 5.65 ft TOP OF CASING 5.20 ft

LOCATION Huntington Beach , CA PROJECT Ascon LF

NUMBER SB0202

DATUM NAVD88

Hogs O Color Sometiment O Security O Color O Color		LL BORE 01/04 J BUREHO		OG -	NUMBER	SB0202		·	· <u>,</u>				
EPTH 10 10 10 10 10 10 10 1		DESCRIPTION	(D						SAN	IPL			
Asphal and Road Base Fill (@1'-very coarse gravel CLAY (OL)tdark olive gray [SY 3/2]; saturated, day (0.0,100); moderate to high stiffness; high plasticity 100 00 10.20 GE-cont change to dark greenish-grey (GLEY1 3/10Y); very moist, riciaceous; trace shell fragments; trace fine sand 2	DEPTH (ft-bgs)	1) Unit/Formation, Mem.7) Plasticity 2) Soil/Rock Name 8) Density/Consistency 3) Color 9) Structure 4) Moisture 10) Other (Mineralization, 5) Grain Size Discoloration, Odor, etc.	GRAPHIC LOC	MELL LOG	OR	ELEVATION (ft)	SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	ID READING (ppm)	TIME (00:00)	1) Rig Behavior
10	5	Asphalt and Road Base Fill @1'-very coarse gravel CLAY (CL):dark olive gray [5Y 3/2]; satuarated; clay (0,0,100); moderate to high stiffness; high plasticity @6'-color change to dark greenish-grey [GLEY I 3/10Y]; very moist; micaceous; trace		9/ ₄ ,		4 3 2 1 0 1 -1 1					0.0		09:41, observed water flowing in from South boring hole through gravels. @1'-Perched water encountered. Began driving @ 10:2
5 - @15'-40% shell fragments	10 + <u>\$</u>	SAND (SP):dark greenish grey [GLEY1 3/10Y]: fine sand (0,90,10); well sorted; nicaceous; some silt; trace of shell ragments; trace of coarse sand 2/12'-increase in grain size from fine, to		¥		-3 -4 -5 -6			6 10				of groundwater.
@18'-trace shell fragments	15 - @	015'-40% shell fragments				-9 -10 -11		 ; ;	3 10	0	10	0:39	
	20 -	18'-trace shell fragments				-13 -14 -15 -16 -17 -18 -19 -20 -21		10)		10	D to	otal depth of 19 ft-bgs in 27 February 2004 @

COORDINATE SYSTEM:

DEVIEWED IOT

OCS Bechmark

GEOSYNTEC CONSULTANTS BORING 924 Anacapa Street, Suite 4A Santa Barbara, CA 93101 (805) 897-3800 LOCATION Huntington Beach , CA PROJECT Ascon LF GS FORM: WELL CONSTRUCTION LOG WELL COMP AG 01/04 NUMBER SB0202 COMMENTS WELL LOCKING COVER DEPTH 1) Groundwater MATERIAL (ft-bgs) 2) Surge Time DEPTH PROTECTIVE RISER 3) Dedicated Pump (FT-BGS) CASING HEIGHT Well installed in roadway. Traffic box installed at ground level at 2.7 surface. 10 20 30

MW-19 SHEET 1 OF 1 START DRILL DATE Feb 27, 04 ELEVATION DATA: FINISH DRILL DATE Feb 27, 04 GROUND SURF. 5.65 ft

TOP OF CASING 5.20 ft DATUM NAVD88

SURFACE COMPLETION: TYPE 12" diameter, traffic box RISER HEIGHT RISER DIAM. WELL CASING HEIGHT -0.45 ft. CONCRETE PAD SIZE Rapid set concrete and sir nix BORING DEPTH 19 ft-bgs ORIGINAL BORING DIAMETER 8.75 in. REAM BORING DIAMETER WELL CONSTRUCTION WELL CONSTRUCTION DATE Feb. 27, 2004 WELL DEPTH 19 ft-bgs WELL CASING DIAMETER 2 in. WELL CASING MATERIAL Sch40 PVC SCREEN SLOT SIZE/DIRECTION 0.020 in. TOP OF SCREEN 4 ft-bgs BOTTOM OF SCREEN 19 ff-bgs END CAP/SUMP LENGTH 0.35 ft GROUT TOP DEPTH -1/2 ft-bgs TYPE/BRAND Pre-mix concrete QUANTITY USED ~1 bag 40 VOLUME FLUID USED PLACEMENT METHOD Poured into borehole BENTONITE SEAL 50 TOP DEPTH Surface TYPE/BRAND Sinclair 3/8" TR30 bent pellets QUANTITY USED 1 bucket VOLUME FLUID USED 5 gallons of Distilled Water 60 SET-UP TIME PLACEMENT METHOD Poured into borehole TRANSITION SAND TOP DEPTH 70 TYPE/BRAND QUANTITY USED PLACEMENT METHOD _____ SAND/GRAVEL PACK 80 TOP DEPTH 3 ft-bgs TYPE/BRAND RMC #2/12 QUANTITY USED 4 bags (4 ft³) PLACEMENT METHOD Through Auger 90 **BOTTOM FILL** TOP DEPTH TYPE/BRAND QUANTITY USED PLACEMENT METHOD

CONTRACTOR West Hazmat **EQUIPMENT** CME 95 DRILL MTHD HSA DIAMETER 8.75 inches LOGGERGTY

NORTHING 2183285.78 **EASTING** 6037947.94 COORDINATE SYSTEM: OCS Bechmark

REVIEWED IOT

DEDICATED PUMP SYSTEM:

TYPE/BRAND: MODEL: CONTROLLER TYPE:



924 Anacapa Street, Suite 4A Santa Barbara, CA 93101 (805) 897-3800

GS FORM: WELL BORE 01/04

BOREHOLE LOG

BORING MW-20 START DRILL DATE

Feb 23, 04 ELEVATION DATA:

FINISH DRILL DATE LOCATION Huntington Beach , CA

Feb 25, 04

PROJECT Ascon LF

NUMBER SB0202

GROUND SURF. 24.94 ft TOP OF CASING 27.43 ft DATUM NAVD88

SHEET 1 OF 3

	DESCRIPTION	1			1			SAN	(PL	=		T
DEPTH (ft-bgs)	1) Unit/Formation, Mem. 7) Plasticity 2) Soli/Rock Name 8) Density/Consistency	GRAPHIC LOG	WELL LOG	GROUNDWATER OR STRUCTURE	ELEVATION (ft)	SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	TIME (00:00)	COMMENTS 1) Rig Behavior 2) Air Monitoring
-	FILL		2 2							ã		Began hand augering @
5	@3'-Sandy Silt (SM): brown [10YR 4/3];slightly moist; silt with 40% fine sand with trace subrounded fine- to medium-grained gravel (< 50 mm) (TR, 40, 60); low plasticity				24 _ 23 _ 22 _ 21 _ 20 _ 19 _ 18				30		08:12 08:26	08:00.
- 16	MPACTED FILL @10'-color change to black [2.5Y 2.5/1]; hydrocarbon saturated; hydrocarbon odor				17 16 15 14 13			12 11	00	1.1 0		Held drilling; driller said
@ ve	VASTE 015'-CLAY (CL): very dark green [2.5Y 3/1]; ery moist; clay; hydrocarbon odor; high asticity; soft				11 . 10 . 9 . 8 . 7		5 5 1	3	0 2	.3 09	'	that possibly CO material wire found on auger.
					5 . 4 . 3 .		3 2 4		4	.0 09		lo ring sample collected.
she	AY (CL): black [2.5Y 2.5/1]; lower isture; moderately stiff; high plasticity; trace ells; trace micaceous				2 1 . 0		4 5 6	100	0.4	09:2	3	
she	y SAND (SP): black [2.5Y 2.5/1]; fine d with silt (0, 70, 30); micaceous; 10% ll fragments; slight hydrocarbon odor; low ticity; well sorted				-3 -4 -5		18 23 30		0.2	09:3	0	
TRAC IPMEN	1101(11)	NG 214	8281.27	NOTES:	<u> </u>	1	I	·		l	1	

DRILL MTHD HSA DIAMETER 8 DIAMETER 8 inches

CME 95 **EASTING** 6037557.55

COORDINATE SYSTEM: OCS Bechmark

REVIEWER 107



924 Anacapa Street, Suite 4A Santa Barbara, CA 93101 (805) 897-3800

GS FORM WELL BORE 01/04

BOREHOLE LOG

BORING

MW-20

SHEET 2 OF 3 ELEVATION DATA:

START DRILL DATE FINISH DRILL DATE

Feb 23, 04 Feb 25, 04 LOCATION Huntington Beach , CA

GROUND SURF. 24.94 ft TOP OF CASING 27,43 ft

NAVD88

PROJECT Ascon LF

DATUM

NUMBER SB0202 SAMPLE DESCRIPTION GRAPHIC LOG ELEVATION (ft) PID READING (ppm WELL LOG 1) Unit/Formation, Mem. 7) Plasticity RECOVERY (%) DEPTH SAMPLE NO. **GROUNDWATER** (00.00)BLOWS PER 2) Soil/Rock Name COMMENTS 8) Density/Consistency (ft-bgs) 3) Color OR 9) Structure 4) Moisture 10) Other (Mineralization, STRUCTURE 1) Rig Behavior 5) Grain Size Discoloration, Odor, etc.) 2) Air Monitoring 6) Percentage 100 0.1 09:36 9 -6 11 -7 -8 100 0.0 09:40 @33.5'-color change to dark greenish grey [GLEY1 4/10Y]; increase in grain size fine- to medium-grained sand (0, 80, 20); micaceous; -9 23 34 5% shell fragments ~10 -11 @36'-becomes very moist or saturated @35.5'-Encountered 100 0.0 09:46 groundwater. -12 26 -13 -14 0.0 09:50 Stopped drilling: prepared for reaming with 13". 40 -15 23 29 Resumed drilling @ -16 08:35 on 25 February 2004 -17 SAND (SP): dark greenish grey [GLEY1 4/10Y]; wet; fine sand (0, 100, TR); 5% shell fragments; micaceous; trace silts -18 18 100 0.0 08:42 -19 21 23 45 -20 @46'-trace shell fragments; 5% fines (0, 95, 5) -21 100 0.0 08:49 15 -22 -23 -24 100 0.0 08:55 50 -25 16 -26 -27 @52'-5% shell fragments; no hydrocarbon 100 0.0 09:03 -28 16 17 -29 55 -30 @55'-trace shell fragments 13 60 0.0 09:06 -31 15 17 -32 -33 @58'Increase in grain size to fine- to medium-grained sand; trace silts 100 0.0 09:13 -34 19 23 60 --35 **CONTRACTOR** West Hazmat

ASCONLFSB0202 04.GPJ GEOSNTEC.GDT 7/19/04

EQUIPMENT CME 95 DRILL MTHD HSA DIAMETER & DIAMETER 8 inches

NORTHING 2148281.27 EASTING 6037557.55 COORDINATE SYSTEM: OCS Bechmark

REVIEWER ICT

NOTES:



924 Anacapa Street, Suite 4A Santa Barbara, CA 93101 (805) 897-3800

BORFHOLFLOG

BORING

MW-20

SHEET 3 OF 3 START DRILL DATE Feb 23, 04 ELEVATION DATA:

DATUM

FINISH DRILL DATE Feb 25, 04

PROJECT Ascon LF

LOCATION Huntington Beach , CA

GROUND SURF. 24,94 ft TOP OF CASING 27.43 ft

NAVD88

WELL BORE 01/0	4 BORI	HOLE LOG	NUMBER	SB0202	DATOM NAVD88
DEPTH 2) Unit/Forma 2) Soil/Rock N 3) Cotor 4) Moisture 5) Grain Size 6) Percentage	Structure Other (Mineralization Discoloration, Odo	SAPH VELL	GROUNDWATER OR STRUCTURE	ELEVATION (ft) SAMPLE NO.	SAMPLE BLOWS PER 6" COMMENTS TIME (00:00) Time (00:00) Time (00:00) Air Monitoring
ine sand; mine sand; mine sand; mine sand; mine sand; mine sand; fine sand; f	dark greenish grey [GLEY1 and; trace silts (0, 100, TR); vace shell fragments			-36 _ -37 _ -38 _ -39 _ -40 _ -41 _ -42 _	100 0.0 09:22 12 100 0.0 09:28 14 16
Sility SAND (S GLEY1 4/10Y low plasticity; v fragments	P-SM): dark greensih grey [; fine sand with silt (0, 75, 25 ery micaceous; trace shell M): dark greenish grey ; silt with some fine sand (0,			-43 _ -44 _ -45 _ -46 _ -47 _ -48 _ -49 _	19 22 16 100 0.0 09:40 17 19 10 0.0 10:05
5 \\\25, 75); micace	ous; low plasticity			-50 -51 -52 -53 -54 -55	Stopped drilling on 25 February 2004 @ 10:05. Total depth = 74.5'.
				-56 _ -57 _ -58 _ -59 _ -60 _ -61	
TRACTOR West	⊣azmat N•	ORTHING 2148281.27		-62 _ -63 _ -64 _ -65 _	

EQUIPMENT DRILL MTHD HSA

DIAMETER 8 inches

DIAMETER 8

EASTING 6037557.55 COORDINATE SYSTEM:

OCS Bechmark REVIEWED ICT

GEOSYNTEC CONSULTANTS BORING MW-20 SHEET 1 OF 1 START DRILL DATE Feb 23, 04 ELEVATION DATA: 924 Anacapa Street, Suite 4A FINISH DRILL DATE Feb 25, 04 Santa Barbara, CA 93101 GROUND SURF. 24.94 ft (805) 897-3800 LOCATION Huntington Beach , CA TOP OF CASING 27,43 ft PROJECT Ascon LF GS FORM: WELL CONSTRUCTION LOG DATUM NAVD88 WELL COMP AG 01/04 NUMBER SB0202 SURFACE COMPLETION: COMMENTS TYPE WELL 10" Steel Monument LOCKING COVER DEPTH 1) Groundwater MATERIAL SLIP CAP RISER HEIGHT (ft-bgs) 2) Surge Time DEPTH RISER DIAM. 3) Dedicated Pump PROTECTIVE RISER 8.5 in. (FT-BGS) WELL CASING HEIGHT CASING HEIGHT 2.42 ft. CONCRETE PAD SIZE 8 5/8-inch steel conductor casing BORING DEPTH 74.5 ft-bgs installed from 1 ft-bgs to 41 ft-bgs. ORIGINAL BORING DIAMETER 15 in. (0'-41') 8 5/8 in. (41'-74.5') REAM BORING DIAMETER 10 WELL CONSTRUCTION WELL CONSTRUCTION DATE Feb. 23-25, 2004 WELL DEPTH 74.5 ft-bgs WELL CASING DIAMETER 2 in. 20 WELL CASING MATERIAL Sch40 PVC SCREEN SLOT SIZE/DIRECTION 0.020 in. TOP OF SCREEN 64 ft-bas BOTTOM OF SCREEN 74 ft-bgs END CAP/SUMP LENGTH 0.35 ft 30 GROUT TOP DEPTH surface TYPE/BRAND Portland Type I/II cement with ~3% Hydrogel Benton 40 QUANTITY USED 10 bags VOLUME FLUID USED ~160 gallons of water PLACEMENT METHOD Through Auger with tremie pipe BENTONITE SEAL 50 TOP DEPTH 57 ft-bgs TYPE/BRAND Sinclair 3/8" bent, pellets QUANTITY USED 2.5 buckets -32.1VOLUME FLUID USED 60 SET-UP TIME -36.1 PLACEMENT METHOD Through Auger -39.1 TRANSITION SAND TOP DEPTH 70 TYPE/BRAND QUANTITY USED PLACEMENT METHOD SAND/GRAVEL PACK 80 TOP DEPTH 61 ft-bas TYPE/BRAND RMC #2/12 QUANTITY USED 4 bags (4 ft3) PLACEMENT METHOD Through Auger BOTTOM FILL 90 TOP DEPTH TYPE/BRAND QUANTITY USED PLACEMENT METHOD **CONTRACTOR** West Hazmat NORTHING 2148281.27 DEDICATED PUMP SYSTEM:

WELL COMP AG ASCON

EQUIPMENT CME 95
DRILL MTHD HSA
DIAMETER 8 inches

LOGGER GTY

NORTHING 2148281.27 EASTING 6037557.55 COORDINATE SYSTEM:

OCS Bechmark

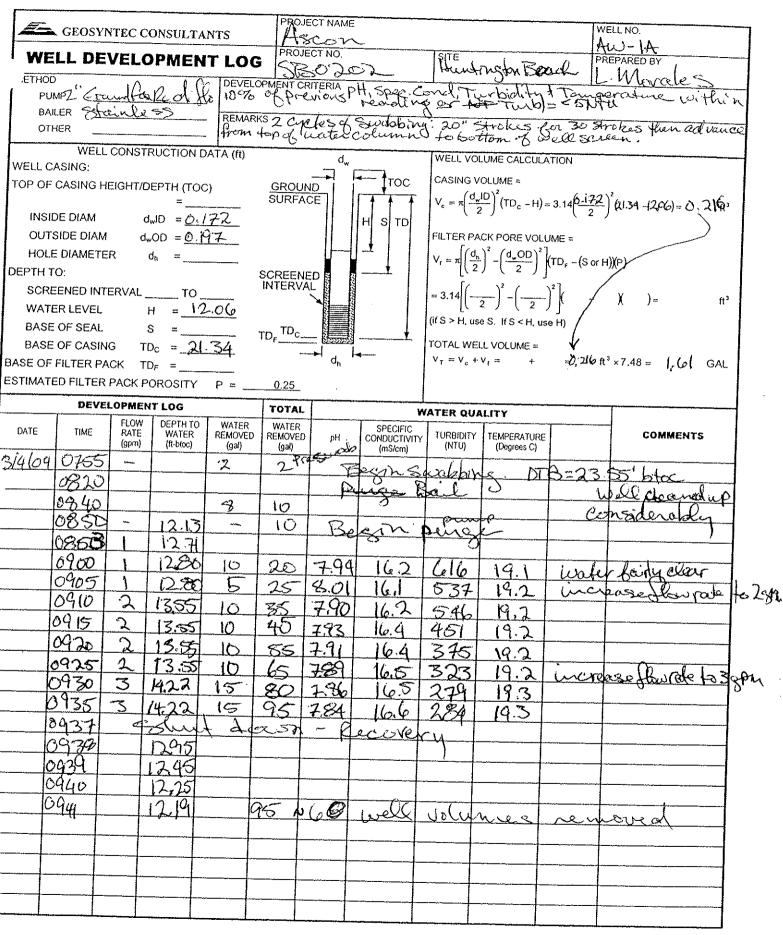
REVIEWER IG7

TYPE/BRAND:

MODEL:

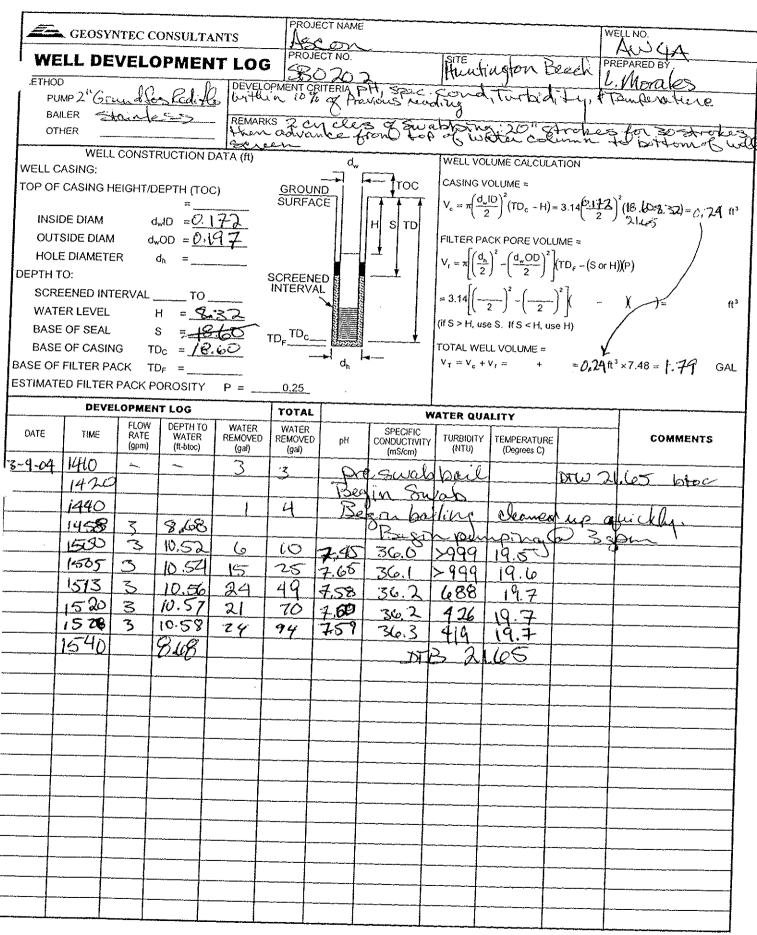
CONTROLLER TYPE:

ATTACHMENT E WELL DEVELOPMENT LOGS

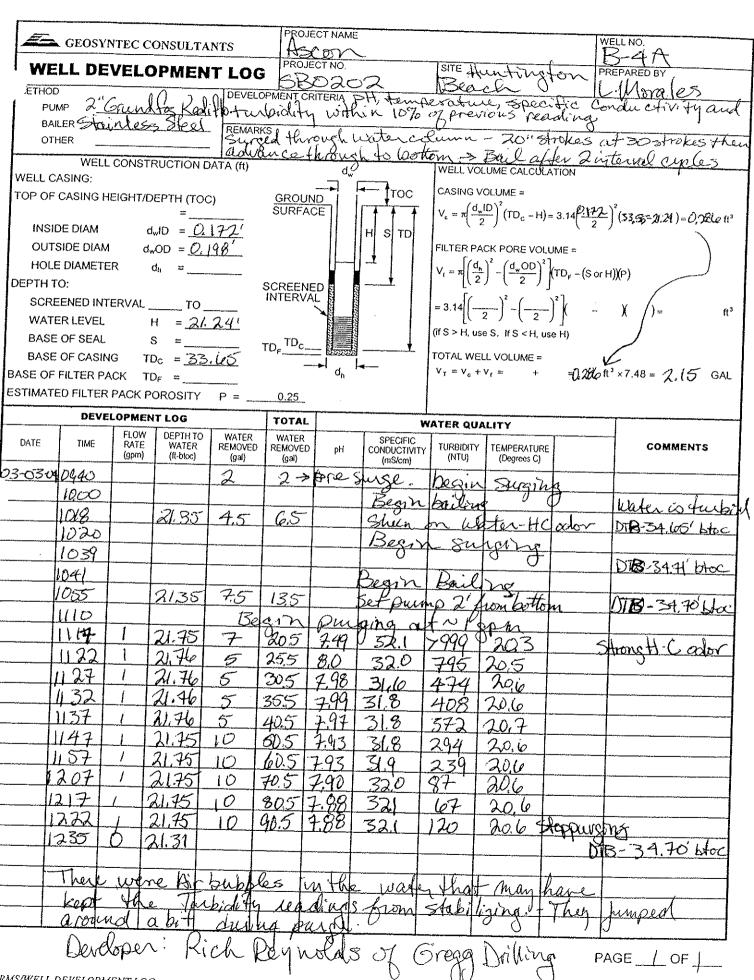


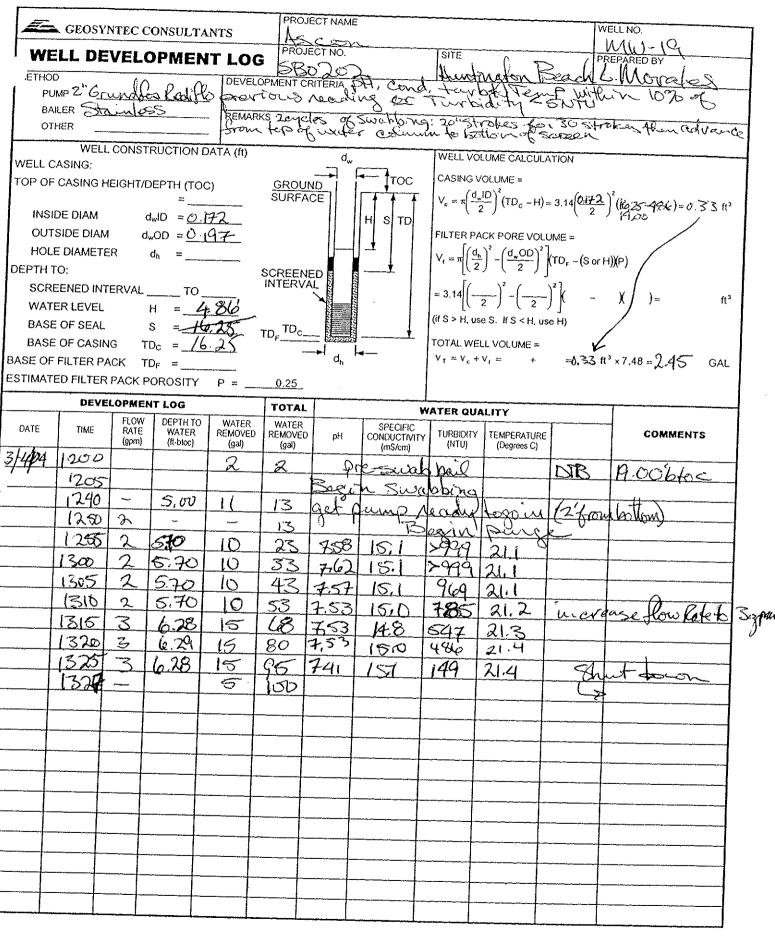
Developen: Rich Reynolds of Grego tuSitu.

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ORMS/WELL DEVELOPMENT LOG Reynolds of Grazz Lu-Sida

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