

HISTORY OF GEOTHERMAL WELL

Operator ORNI 17, LLC Field Brawley Field County Imperial

Well 56-16 Sec. 16 T. 13S R. 14E B.&M. SB

Name Skip Matlick Title Vice President of Drilling Operations
(Person submitting report) (President, Secretary, or Agent)

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Signature *Skip Matlick* Date *07/24/08*

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, production or injection test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, history and initial production data, and zone temperature.

DATE	HISTORY
03/12/08	See attached Drilling history
03/21/08	
04/17/08	
04/21/08	
04/25/08	
to	
05/24/08	

DRILLING HISTORY
Production Well 56-16
API No. 025-91452

LOCATION: 1137 ft N & 183 ft W of the SE Corner of Tract 117
in section 16, T13S-R14E SBB&M

ELEVATION OF PAD: -141.00 ft MSL
KB: 15 FT above pad (-126.00 ft MSL)

MIDNIGHT TO MIDNIGHT REPORT
(ALL DEPTHS REFERENCE KB 15 ft AGL UNLESS OTHERWISE SPECIFIED)

<u>DATE</u>	<u>ACTIVITY</u>
3/12/08	Started construction of a drilling pad measuring 300 ft by 300 ft in accordance with regulatory requirements. The area adjacent to the well pad will include a containment basin measuring 100 ft by 200 ft by 7 ft deep. The pad is constructed to meet standard industry specification that includes soil compaction to support rig weight. The pad is contoured to drain into the cellar from the area around rig.
3/21/08	Finished the construction of the well pad.
4/17/08	Lined basin with 40 mil PVC liner. Sealed seams with 3 ft over-lap with PVC glue.
4/21/08	Rigged up (RU) Howell Drilling. Dug 38-in. hole from surface to 80 ft below ground. Ran 78 ft of 30-in. 3/8-in. Wall Grade B PEBFW into hole with 2-in pipe on outside. Final conductor depth was 78 ft below ground (93 ft KB) . Rigged down (RD) Howell. Pumped 9 cu yd of Ready-mix neat cement through 2-in. pipe. Cement returns.
4/21/08	Installed an 8 ft round cellar according to the rig specifications with a 6 ft depth.
4/25/08	Moved in and rigged up Barbour Rig #77. Rig move is slower than usual due to having one crane and having to share with the production dept.

- 4/26/08 Continued to rig up. Held safety meeting with rig crew. Installed new shakers, conductor and flow line. Repaired hand railing, and rigged up mud cleaning system, mud cooler and generators. Moved tool pusher, mud man, and Ormat trailers to location. Repaired mud pumps. Mixed mud for spud. Made up BHA #1
- 4/27/08 Conducted IADC Rig Safety Inspection, Continued to mix mud. Repaired leak on flow line. Repaired shaker that does not work. Unable to stop the leak on the flow line. Mud pits were spotted in wrong place and required new inlet to possum belly. Generator on rig lost the rear main seal on engine and had to be shut down and swapped out for rental generator. Tagged bottom of conductor at 90 ft reference Kelly bushing (RKB). Began drilling. Drilled from 90 ft to 149 ft and surveyed at 99 ft (1/8 degree deviation). Drilled from 149 to 235 ft and surveyed at 185 ft (1/8 degree deviation). Drilled to 235 ft to 310 ft and surveyed at 284 ft (1/8 degree deviation). Circulated hole to clean cuttings out. Pulled to shoe for wiper trip. No mud losses
- 4/28/08 Tripped back in hole and circulated to condition mud for running casing. Pulled out of Hole (POH) and laid down bottom hole assembly (BHA). Rigged up to run 22-in casing. Ran and welded **22-in x 1/2-in wall, grade B PEBFW line pipe casing. Landed casing and set shoe at 309.42 ft.** Rigged up to circulate and began circulating.
- 4/29/08 Continued to circulate and dropped vis back to 38. Began cement job. Pumped 50 bbls H₂O, 20 bbls mud flush, 2 bbls H₂O, 30 bbls sepiolite flush, 2 bbls H₂O, 500 gal flochek, and 2 bbls H₂O. **Mixed and pumped 325 sacks (sx) Premium Cement** mixed with 30% SSA-1,10% Microlite,10#/sx Spherelite,0.5% Halad-322,2% CaCl₂. **Mixed and pumped 100 sx Elastacem Cement (Latex).** Mixed and pumped **50 sx Premium Cement** mixed with 30% SSA-1,10% Microlite, 0.5% Halad-322. Stopped and washed pumps and lines. Displaced with 8 bbls H₂O. Checked float (OK). Had 95 bbls cement returns to surface with no losses. No top job necessary. POH with drill

pipe and waited on cement (WOC) until 0800 hrs. Cut off conductor and 22-in casing. Welded on 22-in 2M slip on weld (SOW) casing head with 3-1/8-in side outlets. Nippled up 21-1/4-in 2M mud cross with 3-1/8-in side outlets. Installed 21-1/4-in 2M Blind Ram, 21-1/4-in 2M Hydril Annular Preventer, and Bell nipple with flow line.

- 4/30/08 Installed 3-in choke line and new master valve on choke manifold. Installed 2-in kill line with inline check valve. Filled hole and closed Blind Rams. Tested casing, choke line, choke manifold, and blind rams to 250 psi, test OK. Made up BHA #2 and ran in hole to top of cement. Tested Hydril, choke line, manifold, Kill line, check valve, and upper Kelly cock to 250 psi. Test witnessed and OK'd by Mike Woods with Division of Oil and Gas Geothermal Resources. Drilled out float collar and float shoe at 309 ft. Drilled from 310 ft to 448 ft and surveyed at 408 ft (1 degree deviation). Drilled from 448 ft to 544 ft and surveyed at 504 ft (1 degree deviation). Drilled from 544 ft to 639 ft and surveyed at 599 ft (1 degree deviation). Drilled from 639 ft to 735 ft and surveyed at 695 ft (1 degree deviation)
- 5/1/08 Continued drilling from 735 ft to 830 ft and surveyed at 791 ft (1 degree deviation). Wiped hole to 22-in shoe. Drilled from 830 ft to 926 ft and surveyed at 887 ft (1 degree deviation). Drilled from 926 ft to 1023 ft and surveyed at 983 ft (1 degree deviation). Drilled from 1023 ft to 1119 ft and surveyed at 1078 ft (1 degree deviation). Drill from 1119 ft to 1214 ft and surveyed at 1174 ft (1 degree deviation). Drilled from 1214 ft to 1310 ft and surveyed at 1270 ft (1 degree deviation). Wiped hole to 778 ft. Drilled from 1310 ft to 1406 ft and surveyed.
- 5/02/08 Continued survey at 1366 ft (1 degree deviation). Drill from 1406 ft to 1501 ft and surveyed at 1462 ft (1 degree deviation). Drilled from 1501 ft to 1596 ft and surveyed at 1552 ft (1 degree deviation). Drilled from 1596 ft to 1692 ft and surveyed at 1653 ft (1/4 degree deviation). Drilled from 1692 ft to 1820 ft and surveyed at 1780 ft (3/4 degree deviation). Drilled from 1820

ft to 1916 ft and surveyed at 1876 ft (3/4 degree deviation). Drilled from 1916 ft to 1972 ft and surveyed at 1940 ft (3/4 degree deviation). Wiped hole to shoe. Circulated and conditioned hole for logs and running casing. Well site geologist has determined we should set casing at +/- 1950 ft.

5/03/08 POH and laid down BHA #2. RU Schlumberger and logged well. **Ran Induction, Gamma, Caliper, SP, and Porosity Log. Tool was able to get to bottom at 1972 ft. Logged well from 1972 ft to 310 ft.** MRT indicated 170 degrees at 1972 ft 10 hrs after last circulation. Rigged down (RD) Schlumberger and rigged up Weatherford to run casing. **Ran 2 joints of 16-in L-80, 84# BTC (80.53 ft) with 44 ft shoe joint. Float Shoe and Stab-in Float Collar. Ran 45 joints 16-in K-55, 84# BT&C (1870.91 ft).** Rigged down Weatherford and prepared to run drill pipe to stab-in. **Shoe set at 1953 feet, float collar at 1906 feet.**

5/04/08 Ran 1912 ft of 4-1/2-in 20# drill pipe and stab-in adapter. Stab-in to Float Collar. Circulated, conditioned mud for cementing. Maximum temp of 144 degrees during circulation. Held safety meeting with all persons on location. Began cement job. Cement volume is 25% excess over caliper log. Test pumps and line to 2000 psi, pumped 90 bbls H₂O, 20 bbls Mud Flush, 30 bbls Sepiolite Spacer at 10.5 ppg, 2 bbls H₂O, 500 Gal Flochek Neat, and 5 bbls H₂O. **Pumped 650 sx Non Latex Lead Cement (248 bbls Slurry Volume) @ 13.5 ppg (Surface Density) with 0.04 Gal/sx SCR-100L Retarder. Pumped 225 SX Latex Lead Cement (86 bbls Slurry Volume)@ 13.5 ppg (Surface Density) w/0.04 Gal/sx SCR-100L Retarder. Pumped 130 SX (41 BBLs Slurry Volume) Latex Tail Cement at 15.0 ppg w/0.04 Gal/sx SCR-100L Retarder** Stopped and washed out pumps and lines. Displaced with 25 bbls H₂O, and Checked Floats (OK). Unstung from float collar and equalized fluid. POH with drill pipe. Had 90 bbls Cement returns. Cement in place (CIP) at 1030 hrs. WOC 12 hours. Four bolt BOPE and get ready with 16-3/4-in well head and BOPE. Cut casing 34-in below ground level and nipped down 22-in BOPE.

- 5/05/08 Welded on new 16-3/4-in, 2M, SOW well head with 3-1/8-in side outlets. Installed 2 new 3-1/8-in, 2M Flanged Valves on well head. Nippled up 16-in BOPE and flow line. Hooked up remote Koomey control on rig floor. Made up rotating head and oiler. Function tested Blind Rams, Pipe Rams, and Hydrill, (OK). **Performed Top out cement job using 1.8 cubic yards of neat cement** with 3% CaCl₂. Made up BHA #3 (14-3/4-in slick assembly)
- 5/06/08 Pressure tested blind rams, choke line, and manifold. Tested 2-in check valve on kill line to 1000 psi (test OK). Recorded and printed pressure test. Mike Woods with DOG waved witnessing the test. Ran in well with BHA to 925 ft. Circulated well, closed pipe rams, and pressure tested to 1000 psi (Test OK). Opened pipe rams and closed hydrill. Pressure tested Hydrill, and Outer Choke Manifold Valves to 1000 psi (Test OK). Opened bleeder on pump #1 to check Lower Kelly Cock Valve and Kill Line Check Valve. Test is OK. Mike Woods with DOG waived test. Printed both BOPE Tests for books. Continued RIH to 16-in casing float collar at 1906 ft. Drilled float collar, float shoe, and 2 ft of formation and preformed shoe integrity test. Pressured shoe to 300 psig. Test OK. Drilled from 1955 ft to 2052 ft and POH for BHA. Made up BHA as follows: 14-3/4-in bit, near bit (NB) Stabilizer, bit sub, shock sub, 1 - 8 in. DC, stabilizer, 3 drill collars (DC), Jars, 2 DC. Loaded 4-1/2-in drill pipe (DP) on racks in preparation to run in hole (RIH).
- 5/7/08 RIH with 4-1/2-in drill pipe, BHA and 14-3/4-in bit to 2052 ft and drilled 14-3/4-in hole from 2052 ft to 2141 ft and took inclination survey. Surveyed at 2096 ft was 1/4 degree from vertical. Drilled 14-3/4-in hole from 2141 ft to 2401 ft. Circulated bottoms up, surveyed and made wiper trip to shoe of 16-in casing at 1953 ft. Picked up additional two joints to 1947 ft and changed out rotating head rubber and bowl gasket. Inclination survey at 2356 ft was at 0 degrees. RIH to 2401 ft and drilled 14-3/4-in hole to 2500 ft.
- 5/8/08 Drilled from 2500 ft to 2656 ft. Circulated bottoms up and surveyed. Surveyed at 2611 ft was

1/4 degree. POH to 1945 ft for wiper trip. Changed out rental generator for mud loggers and solids control equipment and worked on swivel. RIH to 2656 ft with no fill or tight spots. Drilled from 2556 ft to 2881 ft.

5/9/08 Drilled from 2881 ft to 2912 ft and took inclination survey at 2867 ft. The inclination at 2867 ft was 1 degree from vertical. Continued drilling from 2912 ft to 3170 ft. Circulated bottoms up and took inclination survey. The inclination at 3125 ft was 3/4 degree from vertical. Made wiper trip to 16-in shoe at 1953 ft. No tight spots were encountered. RIH to total depth (TD) at 3170 ft encountering no tight spots or fill and drilled 14-3/4-in hole from 3170 ft to 3180 ft.

5/10/08 Drilled 14-3/4-in hole from 3180 ft to 3424 ft. Circulated bottoms up and took wellbore inclination survey at 3379 ft. Wellbore survey was 1 degree from vertical. Made wiper trip to 2924 ft. Ran back in to bottom, drilled from 3424 ft to 3590 ft and lost total circulation for one minute and partial circulation for six additional minutes in the interval 3586 ft to 3590 ft. Total volume of loss was 75 bbls. Continued drilling from 3590 ft to 3647 ft with minor lost circulation (LC) healing with time. LC averaging 75 bbls/hr while drilling.

5/11/08 Drilled from 3647 ft to 3712 ft, circulated bottoms up, and ran wellbore inclination survey. Inclination at 3667 ft was 1 degree from vertical. Made wiper trip to shoe to condition hole for logs. Circulated 10 ft off bottom moving and rotating the pipe and conditioning the mud and hole until the mud properties were consistent, the fluid loss was under control and the hole mud was slightly less dense than the mud in the pits to insure a dry trip (bad DP float). Spot LCM pill mixed 5 sx Fiber Seal and 1/2 sack Drispac and POH for logs losing 5-9 bbls every 10 joints (30-75 BPH).

5/12/08 Continued to POH and broke down BHA. Bit had chipped teeth with one broken. **Ran Platform**

Express Density-Neutron, SP-GR-Caliper and Array Induction Log, SP-GR-Caliper logs from 1953 ft to 3713 ft (logged depth) with no tight spots and no fill. Transferred fluid from mix tank to active pits and mixed 350 bbls of KCl completion fluid while logging. Rigged down loggers and made up Hole Openers and BHA. RIH to shoe of 16-in. casing. Dumped and cleaned active pits and mix of Hole Opening completion fluid.

- 5/13/08 Completed cleaning pits and mixing 900 bbls of KCl completion fluid. Waited on rig repairs. Losing 5-10 bbls/hr diminishing until 3:00 PM while waiting on rig parts. Filled hole with 9.0 lb/gal KCl fluid until equalization. Worked on rig engine.
- 5/14/08 Completed rig work - the electrical bus bar was corroded by KCl water and had fouled the engine control systems. RIH to 3400 ft and displaced clay based mud with KCl/Drispac/X-link polymer(Geo-Zan) hole opening fluid. POH to inside shoe and worked on pipe wrangler. Polished cement inside the shoe joints from 1929 ft to the shoe at 1953 ft. Worked on the pipe wrangler. Replaced washed out head on pump #2. Opened 14-3/4-in hole to 15-1/2-in from the 16-in. casing shoe at 1953ft to 2416ft.
- 5/15/08 Continued to open hole to 3342 ft and mud cooler failed. POH to shoe and waited on new cooler, service personnel, truck and crane. The mud cleaning, mud log and mud cooler equipment generator overheated and was replaced coincident with the mud cooler. Re-opened hole from shoe at 1953 ft to 2033 ft.
- 5/16/08 Pump pressure dropped 500 psig. POH to look for washout or hole opening tool malfunction. Found the arm actuating piston seal blown. Replaced the hole opener with spare and RIH to shoe at 1953 ft. Re-opened hole from 14-3/4-in to 15-1/2-in from 1953 ft to 3375 ft replacing pump heads and liners on the way.
- 5/17/08 Continued opening hole from 3375 ft to top of sandstone at 3440 ft and set down on bridge.

Increased pump rate and pressure and washed through bridge. Continued opening hole from 3440 ft to **TD at 3712 ft.** Circulated bottoms up twice with two viscous Drispac sweeps to further condition the hole for casing. The first sweep brought copious amounts of sand and cuttings to surface and the second had little effect. This indicated that one sweep was 90%+ effective in cleaning the hole and washouts of residual cuttings. POH and prepared to run casing. Held safety meeting with all hands regarding hazards of the planned liner running procedure. Baker locked and tack welded the bottom four joints of liner and made up and began running the 13-3/8-in 72 lb/ft L-80 slotted BT&C liner with double slip mechanical liner hanger, blank joint and cement guide shoe.

5/18/08 **Continued running 13-3/8-in liner and found fill on bottom. Set shoe at 3675 ft with top of liner hanger at 1890 ft.** Un-jayed to L. and set down 40,000 lb to confirm set. Picked up to neutral and rotated off hanger with running tool. POH and mixed KCl wash fluid to 8.8 lb/gal density. RIH with double opposed wash cups with 10 ft spacing breaking circulation on the way (the hole was overbalanced with 9.1 lb/gal KCl/Drispac and would not stand full). Staged in getting circulation at 500 ft after 36 bbls with 8.8 lb/gal fluid.

5/19/08 Continued running in hole breaking circulation in 1000 ft stages from 500 ft to 3675 ft (no fill). With tool at 3675 ft circulated 10 min and began washing liner and displacing the annulus at 85 spm (450 GPM) and 150 psig surface pressure. Marked washouts on log for extra wash time. Washed with 5 min. one joint passes. Two passes in gage hole and three in washouts. Circulated 3 min. at the completion of each joint prior to breaking connections to insure that debris is well above the cups prior to shutting the pumps down. Washed the liner and 13-3/8-in X 15-1/2 in annulus from 3675 ft to 2526 ft (top of perforations at 1940 ft). Draw works shaft bearings failed. Pulled wash cup assembly up to 1792 ft, closed pipe rams, installed Kelly cock, and secured well monitoring

pressure at choke manifold and standpipe. Worked on draw works and waited on mechanic.

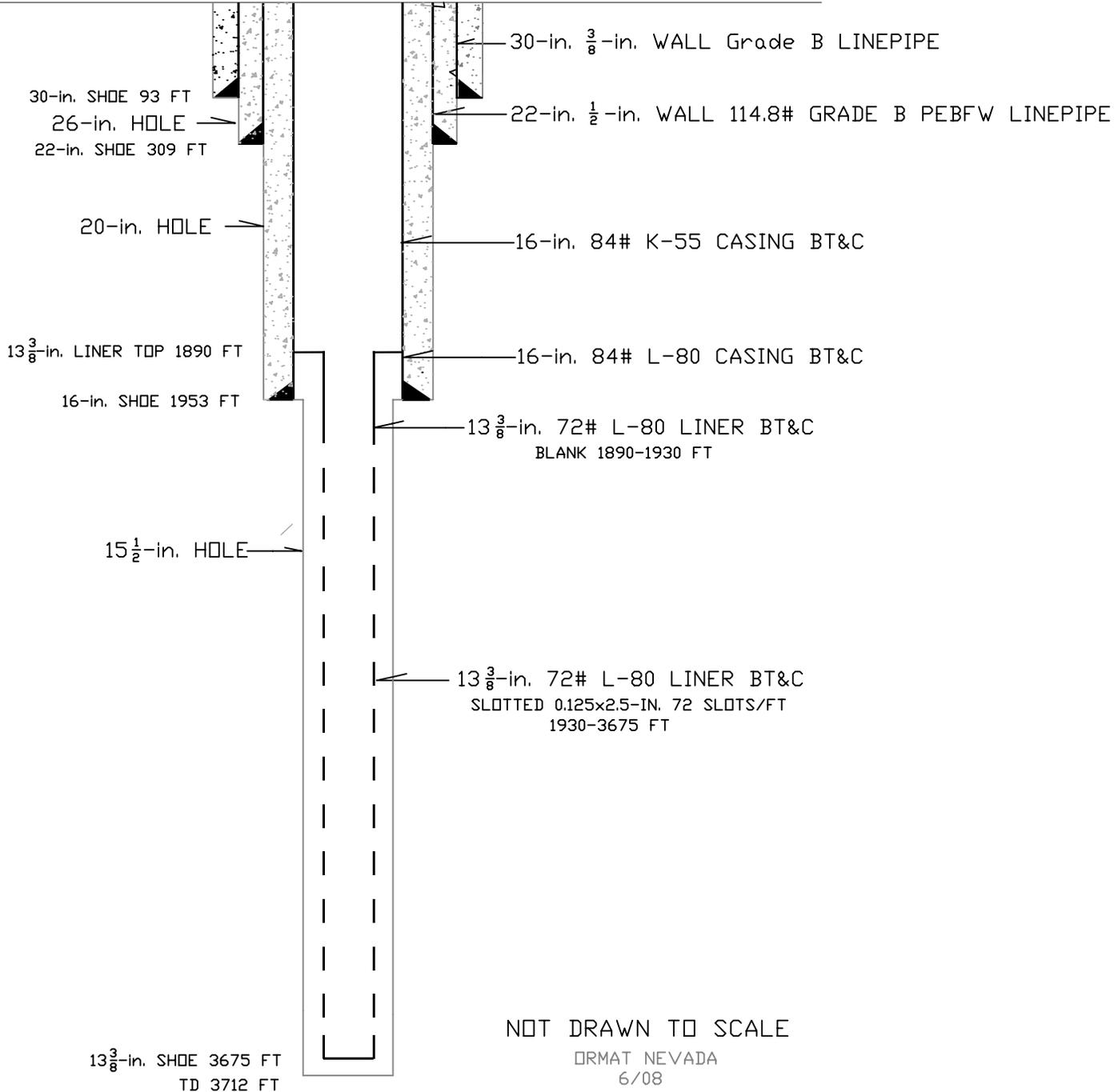
- 5/20/08 Waited on rig mechanics and worked on draw works. Cleaned up and organized location. Graded and leveled access road with loader. Rolled pits. Expected rig repairs to be complete 5/23 AM.
- 5/21/08 Waited on draw works parts to repair same.
- 5/22/08 Repair parts arrived on location and mechanics started the repair process. Finished repair on draw works. Circulated well to cool down. RIH to 2600 ft and begin washing perforated liner as outlined in the liner wash procedure. Washed liner from 2600 ft to 2462 ft.
- 5/23/08 Continued to wash liner from 2462 ft to 1898 ft. Pulled wash cups into blank liner and checked cup condition (cups OK as indicated by pressure). POH with wash tool. RIH with open ended drill pipe to check for fill (none found). POH and made up Baker inflatable packer. Ran and set packer at 100 ft.
- 5/24/08 Laid down Baker running tool. Tore out 16-in BOPE and installed 16-in spacer spool, 16-in X 12-in flanged spool, 12-in ANSI 400 master valve. Released Rig.

FINAL WELL 56-16
 BRAWLEY FIELD
 IMPERIAL COUNTY, CA

Location: 1137 ft N & 183 ft W of the SE Corner of Tract 117
 in section 16, T13S-R14E SBB&M

Elevation Gr: APPROX. -141 FT MSL

ALL DEPTHS REFERENCED TO KB
 APPROX. 15 FT ABOVE Gr.



CASING TALLY SHEET

FIELD: Brawley Geothermal Field PROPERTY Ormat Nevada Inc. WELL NO. 56-16 (p-7)

CSG SIZE: 22in WEIGHT: 114.8 GRADE: Grade "B" CPLGS: Line Pipe

JOINTS DELIVERED TO WELL: 8 # JOINTS INSTALLED IN WELL: 8

NOTE: SHOW JOINTS LEFT OUT AS NEGATIVE NUMBERS (ex. -44.00) AT END OF TALLY

JOINT	LENGTH	AUXILIARY EQUIPMENT	JOINT	LENGTH	AUXILIARY EQUIPMENT
1	38.50		51	0.00	
2	38.50		52	0.00	
3	38.54		53	0.00	
4	38.52		54	0.00	
5	38.55		55	0.00	
6	38.57		56	0.00	
7	38.52		57	0.00	
8	38.57		58	0.00	
9	0.00		59	0.00	
10	0.00		60	0.00	
TOTAL "A"	308.27	Does not include FC and Shoe	TOTAL "F"	0.00	
11	0.00		61	0.00	
12	0.00		62	0.00	
13	0.00		63	0.00	
14	0.00		64	0.00	
15	0.00		65	0.00	
16	0.00		66	0.00	
17	0.00		67	0.00	
18	0.00		68	0.00	
19	0.00		69	0.00	
20	0.00		70	0.00	
TOTAL "B"	0.00		TOTAL "G"	0.00	
21	0.00		71	0.00	
22	0.00		72	0.00	
23	0.00		73	0.00	
24	0.00		74	0.00	
25	0.00		75	0.00	
26	0.00		76	0.00	
27	0.00		77	0.00	
28	0.00		78	0.00	
29	0.00		79	0.00	
30	0.00		80	0.00	
TOTAL "C"	0.00		TOTAL "H"	0.00	
31	0.00		81	0.00	
32	0.00		82	0.00	
33	0.00		83	0.00	
34	0.00		84	0.00	
35	0.00		85	0.00	
36	0.00		86	0.00	
37	0.00		87	0.00	
38	0.00		88	0.00	
39	0.00		89	0.00	
40	0.00		90	0.00	
TOTAL "D"	0.00		TOTAL "I"	0.00	
41	0.00		91	0.00	
42	0.00		92	0.00	
43	0.00		93	0.00	
44	0.00		94	0.00	
45	0.00		95	0.00	
46	0.00		96	0.00	
47	0.00		97	0.00	
48	0.00		98	0.00	
49	0.00		99	0.00	
50	0.00		100	0.00	
TOTAL "E"	0.00		TOTAL "J"	0.00	
COLUMNS	TOTALS	ACCUM.	TOTAL FOOTAGE OF CSG INSTALLED:		308.27 FEET

TOTAL "A"	308.27	308.27	SHOULDER LENGTH:	1.45 FEET
TOTAL "B"	0.00	308.27	FLOAT COLLAR LENGTH:	1.70 FEET
TOTAL "C"	0.00	308.27	FLOAT COLLAR DEPTH	267.77 FEET
TOTAL "D"	0.00	308.27	DRILL PIPE LENGTH	0.00 FEET
TOTAL "E"	0.00	308.27	DRILL PIPE ABOVE TOP OF CASING	0.00 FEET
TOTAL "F"	0.00	308.27	CASING ABOVE KB (This is a negative number):	-2.00 FEET
TOTAL "G"	0.00	308.27	CSG LANDED @	309.42 FEET
TOTAL "H"	0.00	308.27		
TOTAL "I"	0.00	308.27		
TOTAL "J"	0.00	308.27		
PG. TOTAL	308.27			

CASING TALLY SHEET

FIELD: Brawley Geothermal Field PROPERTY Ormat Nevada Inc. WELL NO. 56-16 (p-7)
 CSG SIZE: 16in WEIGHT: 84 GRADE: L-80/K-55 CPLGS: Butt
 # JOINTS DELIVERED TO WELL: 52 # JOINTS INSTALLED IN WELL: 47

NOTE: SHOW JOINTS LEFT OUT AS NEGATIVE NUMBERS (ex. -44.00) AT END OF TALLY

JOINT	LENGTH	AUXILIARY EQUIPMENT	JOINT	LENGTH	AUXILIARY EQUIPMENT
1	44.23	L-80 Casing	51	35.97	Joint left out
2	36.30	L-80 Casing	52	40.33	Joint left out
3	40.78		53	0.00	
4	40.76		54	0.00	
5	40.64		55	0.00	
6	44.20		56	0.00	
7	39.83		57	0.00	
8	39.30		58	0.00	
9	38.55		59	0.00	
10	43.00		60	0.00	
TOTAL "A"	407.59	Does not include FC and Shoe	TOTAL "F"	76.30	
11	41.87		61	0.00	
12	40.26		62	0.00	
13	39.33		63	0.00	
14	39.83		64	0.00	
15	37.59		65	0.00	
16	42.80		66	0.00	
17	39.02		67	0.00	
18	43.60		68	0.00	
19	43.05		69	0.00	
20	43.87		70	0.00	
TOTAL "B"	411.22		TOTAL "G"	0.00	
21	44.84		71	0.00	
22	44.66		72	0.00	
23	42.41		73	0.00	
24	38.88		74	0.00	
25	40.14		75	0.00	
26	38.50		76	0.00	
27	44.85		77	0.00	
28	44.83		78	0.00	
29	39.23		79	0.00	
30	39.88		80	0.00	
TOTAL "C"	418.22		TOTAL "H"	0.00	
31	41.35		81	0.00	
32	39.95		82	0.00	
33	43.64		83	0.00	
34	39.90		84	0.00	
35	42.42		85	0.00	
36	43.09		86	0.00	
37	39.50		87	0.00	
38	35.45		88	0.00	
39	43.87		89	0.00	
40	44.27		90	0.00	
TOTAL "D"	413.44		TOTAL "I"	0.00	
41	43.05		91	0.00	
42	44.15		92	0.00	
43	41.20		93	0.00	
44	40.97		94	0.00	
45	44.03		95	0.00	
46	39.97		96	0.00	
47	44.47		97	0.00	
48	43.83	Joint left out	98	0.00	
49	40.85	Joint left out	99	0.00	
50	44.45	Joint left out	100	0.00	
TOTAL "E"	426.97		TOTAL "J"	0.00	
COLUMNS	TOTALS	ACCUM.	TOTAL FOOTAGE OF CSG INSTALLED: 1951.44 FEET		

TOTAL "A"	407.59	17.59	SHO NGTH:	1.50 FEET
TOTAL "B"	411.22	818.81	FLOAT COLLAR LENGTH:	1.80 FEET
TOTAL "C"	418.22	1237.03	FLOAT COLLAR DEPTH	1906.64 FEET
TOTAL "D"	413.44	1650.47	DRILL PIPE LENGTH	0.00 FEET
TOTAL "E"	426.97	2077.44	DRILL PIPE ABOVE TOP OF CASING	0.00 FEET
TOTAL "F"	76.30	2153.74	CASING ABOVE KB (This is a negative number):	-2.00 FEET
TOTAL "G"	0.00	2153.74	CSG LANDED @	1952.91 FEET
TOTAL "H"	0.00	2153.74		
TOTAL "I"	0.00	2153.74		
TOTAL "J"	0.00	2153.74		
PG. TOTAL	2153.74			