GTHT -___004____

THERMAL GRADIENT WELLS

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit Original Plus 1 Copy to Santa Fe 1 Copy to Appropriate District Office

DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES, GAS PLANTS, REFINERIES, COMPRESSOR, GEOTHERMAL FACILITES AND CRUDE OIL PUMP STATIONS

(Refer to the OCD Guidelines for assistance in completing the application)

	New Renewal Modification
1.	Type: Geothermal - temperature gradient hole
2.	Operator: Ormat Nevada Inc
	Address: 6225 Neil Road, Reno, NV 89511
	Contact Person: Charlene Wardlow Phone: 775-336-0155
3.	Location: <u>NE</u> /4 <u>NW</u> /4 Section <u>4</u> Township <u>195</u> Range <u>2</u> <i>W</i> Submit large scale topographic map showing exact location.

- 4. Attach the name, telephone number and address of the landowner of the facility site.
- 5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
- 6. Attach a description of all materials stored or used at the facility.
- 7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
- 8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
- 9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
- 10. Attach a routine inspection and maintenance plan to ensure permit compliance.
- 11. Attach a contingency plan for reporting and clean-up of spills or releases.
- 12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
- 13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

14. CERTIFICATIONI hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

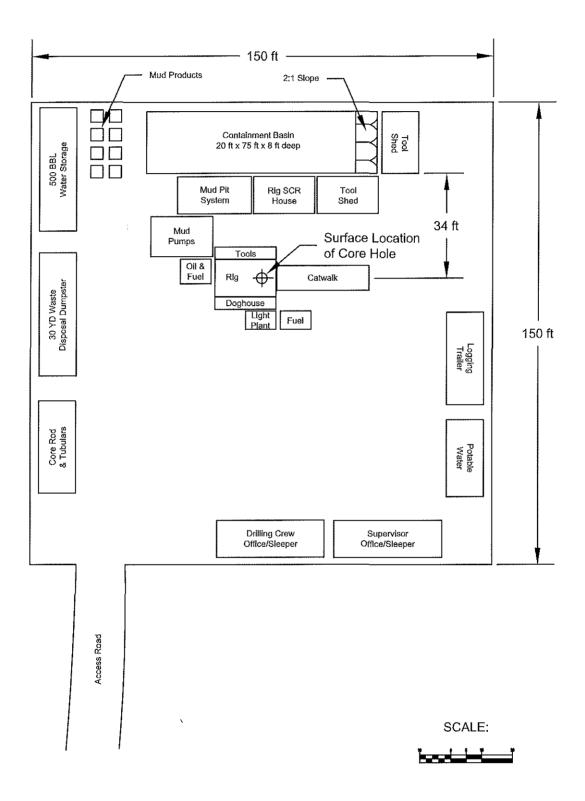
Name: Charlene L. Wardler	Title: Director Business Development
Signature: Charlene & Wardlow	Date: april 18, 2014
E-mail Address: CWardlow@ormat.	com

Ormat Nevada Inc.

Discharge Plan Application for Geothermal Temperature Gradient Hole 32-4 at Rincon, NM

Injection is proposed using groundwater from a local supply well. At the completion of the temperature gradient hole (TGH) 32-4, Ormat Nevada Inc. (Ormat) would like to inject clean water into the hole to do an injection test. The water would be either from the water company in Rincon or purchased from a local entity with a groundwater well. Injection into a geothermal hole is useful to determine injectivity and permeability characteristics of the geothermal resource. This application explains the operations to accomplish this purpose.

- The landowner is the United States Department of the Interior Bureau of Land Management, Las Cruces District Office, 1800 Marquess Street, Las Cruces, NM 88005. Edward Suem, Supervisor Lands & Minerals, 575-525-4313, <u>eseum@blm.gov</u>. The TGH would be located on BLM lease NMNM 125605.
- 5. The facility will be a well pad to accommodate the drilling rig and equipment to drill the TGH. See enclosed well pad layout. Because there is an existing well pad at this location it will not be exactly square like shown. The pit will be permitted as a temporary pit and cleaned out the end of the drilling operation.
- 6. Diesel fuel for the engines, gel based mud and barite for well control will be on location along with other small amounts of materials. See enclosed list from Newpark Drilling Fluids, LLC.
- 7. There is currently no sources of effluent or waste solids on the site. Drilling of the TGH will require drilling mud and drilling of the hole will generate cuttings which will be placed in the pit (called a containment basin on the drillpad layout) as the the hole is drilled. The amount will depend on how fast the hole is drilled.
- 8. There is no current liquid or solid waste collection/treatment/disposal procedure at the site.
- There are no modifications proposed as there is no existing collection/treatment/disposal system.
- 10. There is currently no permit from the OCD for this project and there are no facilities on site to inspect.
- 11. Ormat's Drilling Program outlines emergency and spill response.
- 12. A TGH was drilled in 1995. The mud log for this hole is enclosed. Groundwater was encountered at 305 feet. No water analysis is available. Well RAD-7 was drilled approximately 0.4 miles north of the 32-4 location and groundwater was encountered at 450 feet. An analysis of this water is enclosed.
- 13. TGH 32-4 will remain upon for completion to monitor downhole temperatures. The drilling rig and equipment will be removed. The temporary pit will be cleaned out in accordance with the requirements of Title 19 Chapter 15 Park 17 of the OCD's rules. Those will accompany permit C-144 for the temporary pit.



TYPICAL CORE RIG DRILL PAD LAYOUT

		'Tab	le 1.	Chemistry of water from RAD-7. .4 miles north of 32-4@450'							
TEMP ℃	pH		Na mg/L					HCO3 mg/L		SO4 mg/L	SIO2 mg/L
65.0 (<u>149°</u> F)	7.1	1924	601.2	57.8	48.5	5.1	0.69	212.3	666.7	343.1	116.7



410 17th STREET

SUITE 460

DENVER, COLORADO 80202

(303) 623-2205

FAX (720) 904-7970

Ormat

Rincon, NM FOB Winnemucca, Evanston WY or Casper WY

New Gel (high yield)	50lbs	\$6.50
Hole Plug 3/8	50lbs	\$6.95
Hole Plug 3/4	50lbs	\$6.95
Hole Plug #8	50lbs	\$6.95
Abantonite	50lbs	\$11.98
New Pac R	50lbs	\$155.00
New Pac LV	50lbs	\$157.00
New SPA	50lbs	\$182.00
Dynalose CM/Aqua Bloc	501bs	\$119.00
New PHPA	5gal	\$82.80
NDFX 242	5gal	\$138.50
N100	5gal	\$93.20
New Ease 203	5gal	\$124.50
Deep Drill	5gal	\$89.50
LST-MD	5gal	\$92.50
NDFX 233	5gal	\$155.00
New Foam	5gal	\$88.00
Core Tube Lube	5gal	\$122.00
Soda Ash	50lbs	\$15.19
Magma Fiber	251bs	\$52.75
Dyna Fiber	25lbs	\$53.00
Shredded Paper	40lbs	\$19.30

Additional Prices upon request Any third party charges to be billed at cost plus 15% Any applicable taxes will be added Prices subject to change with notice no charge pallet and shrink

NO, OF COPIES RECEIVED	DEPARTMENT	SANTA FE, NEW	Form G-101 Adopted 10-1-74 Revised 10-1-78				
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			, .		1	Typa of Leaso	
File .		APPLICATION FOR PERMIT TO DRILL, DEEPEN,			STATE BLM FEE		
N.M.B.M.		OR PLUG BACKGEOTHE	S.a Stato Lease No.				
U.S.G.S.					mm	mmmmm	
Operator					AIIIII		
Land Office						ement Name	
1s. Type of Work Drill		Deepon	Plug Back		7. Unit Agro	ement Name	
0. 1) 10 01 11011	thermal Produce Temp Thermal		Temp Observation 🛛		8, Farm or I	Lease Name	
2. Name of Operator Orm	at Nevada Inc.	a a a a a a a a a a a a a a a a a a a			9. Well No. TGH	32-4	
3, Address of Operator 62	225 Neil Road. R	eno, NV 89511		and an and a second sec	to. Field and	d Pool, or Wildcat	
•		LINE OF SEC. 4 TWP.					
AND 1485 FEET FR	OM THE West	LINE OF SEC. 4 TWP. 14	15 RGE, 2W	NMPM 9A. Formatic Paleozoic Be	drock	20. Rotary or C.T. Rotary and Core x. Date Work will start June 15, 2015	
AND 1485 FEET FR	OM THE West	LINE OF SEC. 4 TWP. 14 21A. Kind & Status Plug. Bond GT B1 \$5000	15 RGE, 2W 19. Proposed Depth 4000'	NMPM 9A. Formatic Paleozoic Be	Dona Ana	20. Rotary or C.T. Rotary and Core x. Date Work will start	
21. Elevations (Show whether 4378'	OM THE West	LINE OF SEC. 4 TWP. 14 21A. Kind & Status Plug. Bond GT B1 \$5000 PROPOSED CASING AM	19. Proposed Depth 4000 ¹ 21B. Drilling Contractor G	NMPM 9A. Formatic Paleozoic Be eoDrill LLC	Dona Ana Don Don Don Don Don Don Don Don Don Don	20. Rotary or C.T. Rotary and Core x. Date Work will start June 15, 2015	
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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. Give blowout preventer program, if any.

ż,

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

-See attached conditions of approval,

harlese & Wardlow Tille Director Business Development 01-09-15 signed (Dute . (This space for State Use) APPROVED BY Carly Ching TITLE Environmental Engineer

5/21/2015

DATE

ORMAT Nevada, Inc. Geothermal Project Thermal Gradient Well 32-4 (TGH 32-4)

G-101 Form OCD Artesia District Office Conditions of Approval (5/21/2015)

1) The operator shall obtain an OCD well bond approval letter in advance of any well drilling activity.

2) "Thermal gradient well" (TGW) shall mean a well drilled or used solely for temperature observation purposes, and shall not be completed as a geothermal producing well or as an injection or disposal well.

3) The operator shall satisfy the G-103 Sundry requirement to request OCD approval for directional drilling of the well.

4) The operator shall follow the OCD Geothermal Resources Conservation Act and Geothermal Administrative Code whenever the operator's "Drilling Program Rincon Core Hole 32-4 (April 2014) deviates from OCD applicable geothermal regulations.

5) The operator shall plug and abandon the TGW within 6-months of well completion.

6) The operator shall submit daily electronic drilling reports up to well completion to OCD Santa Fe and Artesia Offices.

7) The operator shall implement API Class 2M-RSRA or equivalent Blowout Prevention Equipment (BOPE) per 19.14.102.8(A)2 NMAC on the well. Blowout equipment testing shall be conducted per 19.14.104.8 NMAC. Blowout notification per 19.14.36.8 NMAC shall be implemented in the event of a blowout.

8) Pits shall be constructed with liners that can handle elevated temperatures and meet the technical requirements of OCD's Pit Rule with respect to siting, construction, operation and closure.

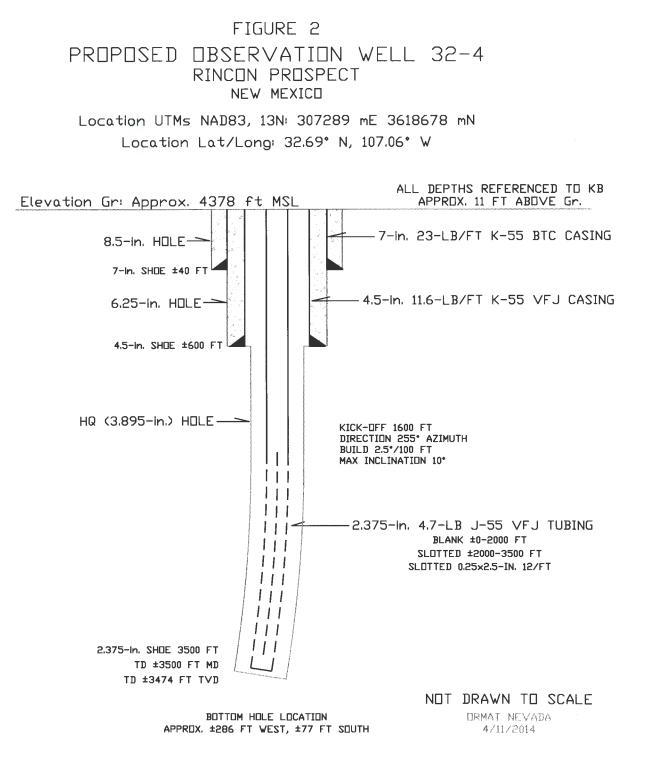
9) Geothermal exempt wastes, i.e., drill cuttings, shall be disposed at a RCRA waste disposal facility approved to receive "special wastes" in accordance with 40 CFR, part 261 or as approved by OCD. Produced fluids and/or H2S derived waste are considered to be "oilfield exempt" wastes that may be treated and/or disposed in a UIC Class II SWD Well or at an OCD permitted Surface Waste Management Facility.

10) Well environmental quality sampling: groundwater quality samples shall be collected at the water table during drilling if the well starts to flow. All attempts will be made to prevent the well from flowing prior to casing point. All drinking water aquifers will be placed behind casing down to 600 ft. and will be protected from cross-flow of any deeper feed zones. A composite groundwater sample will be collected prior to plug and abandonment of the well. All samples need to be analyzed for state water quality standards. Furthermore, the operator shall implement well completion measures that protect protectable groundwater (< 10,000 ppn TD/S) by the following:

- a. All water quality sampling and laboratory methods shall adhere to ASTM E947-83 and EPA Quality Assurance/Quality Control (QA/QC) and Data Quality Objectives (DQOs).
- b. Adequate water containment will be necessary to circulate the hole for clean sampling representative of the formation to satisfy sampling requirements.
- c. OCD may require water quality sample collection and environmental analytical laboratory analyses for specified parameters if well deepening is requested, and/or as otherwise required.
- d. If the operator determines that groundwater produced during the sampling process is greater than 10,000 mg/L TDS, then it must immediately contact OCD for further instructions.

11) The operator shall comply with the terms and conditions of the Geothermal Regulations (Chapter 71, Article 5 NMSA 1978 and Title 19, Chapter 14 NMAC). Since injection wells may also become production wells, all Underground Injection Control (UIC) Class V Geothermal Injection Wells shall comply with all reasonable conditions or requirements set by the OCD (USEPA NM UIC Program Primacy Agency) to protect the environment and public health. UIC Class V Injection Wells shall comply with applicable Federal regulations, i.e., 40 CFR 144, Subpart G; 40 CFR 144.81(11) - 83 and operational requirements of 40 CFR Parts 144 through 147.

Please be advised that OCD approval does not relieve ORMAT Nevada, Inc. from responsibility should its operations pose a threat to groundwater, subsurface trespass, water supply/diversion, surface water, human health or the environment. In such event, OCD may order the operator to plug and abandon its well pursuant to the geothermal regulations. In addition, OCD approval does not relieve ORMAT Nevada, Inc. of responsibility for compliance with any other federal, state, or local laws and/or regulations.



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

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Form G-102 Adopted 10-1-74 Revised 10-1-78

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GEOTHERMAL	RESOURCES	WELL	LOCATION A	AND ACREAGE	DEDICATION PL	AT

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Operator Orma	it Nevada Inc.				NMNM 125605		Well No. TGH 32-4
Unit Letter C	Section 4	Township	19 S	Range 2W	County Do	na Ana	
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Ground Level Elev.	And and a state of the state of	ermation		and		De	dicated Acreage:
Ground Level Elev. 4378 ft	N	/A		N/A			N/A Acres
2. If more and roy	valty). N/A	s dedicated to	the well, ou	tline cach and id	entify the owner	ship thereof (both as to working inter
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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT	Form G-103 Adopted 10-1-74 Revised 10-1-78
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N. M. B. M. ON	5. Indicate Type of Lease
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Operator	5.a State Lease No.
Land Office .	
Do Not Use This Form for Proposals to Drill or to Deepen or Plug Back to a Different Reservoir. Use "Application For Permit	
1. Type of well Geothermal Producer Temp. Observation	7. Unit Agreement Name
Low-Temp Thermai injection/Disposal	8. Farm or Lease Name
2. Name of Operator Ormat Nevada Inc.	8. Farm of Lease Mame
3. Address of Operator 6225 Neil Rd. Reno, NV 89511	9. Well No. TGH 32-4
4. Location of Well	10. Field and Pool, or Wildcat
Unit LetterFeet From The North 1485 Feet From The	Rincon
The West Line, Section Township 19 S Range 2WNMPM.	
4378'	12. County Dona Ana
16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Da	la
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PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
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APPENDIX D

DIRECTIONAL PLAN DRILLING PROGRAM RINCON CORE HOLE 32-4 Rincon Prospect, Doña Ana County, NM

> ORMAT NEVADA INC. April 23, 2014

Ormat Nevada Inc. – Drilling Office 6225 Neil Road Reno, NV 89511

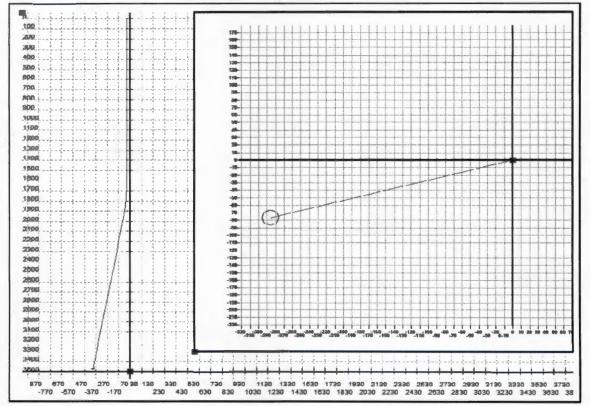
Page | 28

Directional Plan:

Kick-Off: 1600 ft Azimuth: 255° (S75°W) Build Rate: 2.5° / 100 ft Max Inclination: 10° Total Measured Depth: 3500 ft MD Total Vertical Depth: 3474 ft TVD Bottom Hole Location: ~286 ft west, ~77 ft south



ORMAT Technologies Directional Drilling Plot for Proposed Core Hole CX 32-4





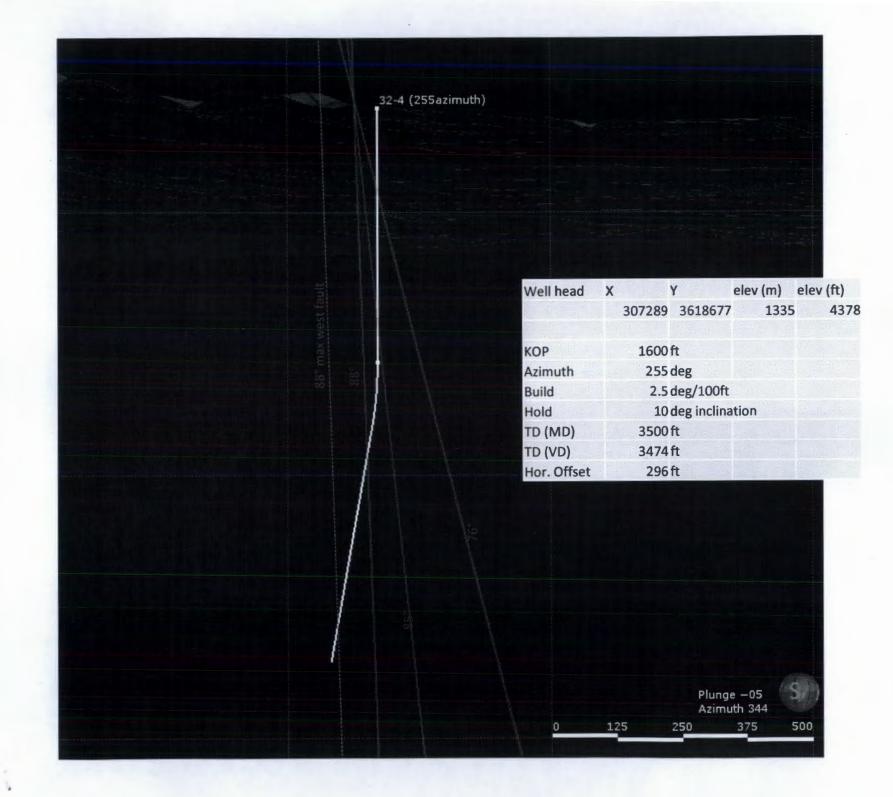
ORMAT Technologies Proposed Core Hole CX 32-4

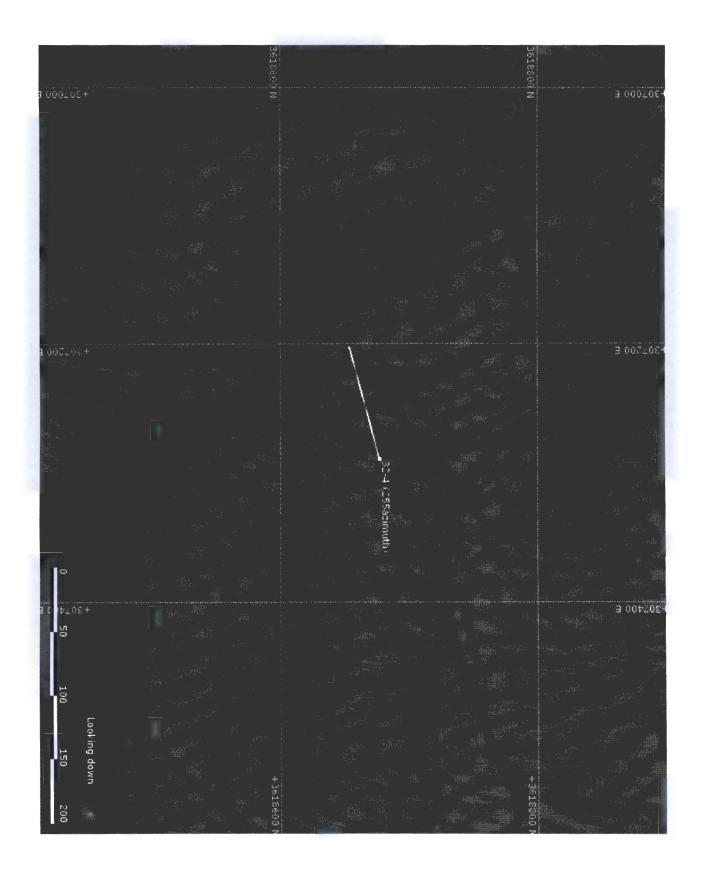
DIRECTIONAL SURVEY CALCULATIONS Minimum Curvature Method Vertical Section Plane 255.00 Vertical Section Reference of offset from Wellhead: EW =.00 Ft , NS=.00 Ft

Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	True Vertical Depth	Incl Angle Deg	Drift Direction Deg	N-5 FT	E-W FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
.00 100.00 200.00 300.00 400.00	.00 100.00 209.00 309.00 400.00	.00 .00 .00 .00	.00 .00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00	.00 .00 .00 .00
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1680.00 1700.00 1720.00 1740.00 1760.00	1679.98 1699.97 1719.95 1739.91 1759.87	2.00 2.50 3.00 3.50 4.00	255.00 255.00 255.00 255.00 255.00	36 56 81 -1.11 -1.44	-1.35 -2.11 -3.03 -4.13 -5.39	1.40 2.18 3.14 4.27 5.58	255.00 255.00 255.00 255.00 255.00	2.50 2.50 2.50 2.50 2.50 2.50
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Ormat Nevada Inc. - Drilling Office 6225 Neil Road Reno, NV 89511





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