

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 S. First St., Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address OXY USA Inc P.O. BOX 50250 Midland, TX 79710		² OGRID Number 16696
		³ Reason for Filing Code/ Effective Date Test Allowable - 2/2017
⁴ API Number 30-015-43708	⁵ Pool Name Pierce Crossing Bone Spring, East NSL-7389	⁶ Pool Code 96473
⁷ Property Code: 316106	⁸ Property Name: Cedar Canyon 22 Federal Com	⁹ Well Number: 4H

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
I	22	24S	29E		2540	South	260	East	Eddy

¹¹ Bottom Hole Location

Top Perf- 2494 FSL 529 FEL Bottom Perf- 2562 FSL 336 FWL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	22	24S	29E		2567	South	160	West	Eddy

¹² Lse Code F	¹³ Producing Method Code : F	¹⁴ Gas Connection Date: TBD	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
-----------------------------	---	--	-----------------------------------	------------------------------------	-------------------------------------

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
239284	OCCIDENTAL ENERGY TRANSPORTATION (BRIDGER LLC)	O
151618	ENTERPRISE FIELD SERVICES LLC	G
	NM OIL CONSERVATION ARTESIA DISTRICT FEB 22 2017	
	RECEIVED	

IV. Well Completion Data

²¹ Spud Date 10/25/16	²² Ready Date 1/26/17	²³ TD 13435'M 8728'V	²⁴ PBTB 13372'M 8730'V	²⁵ Perforations 8827-13265'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4"	488'	382		
9-7/8"	7-5/8"	8197'	2886		
6-3/4"	5-1/2" X 4-1/2"	13424'	500		

V. Well Test Data

³¹ Date New Oil 1/29/17	³² Gas Delivery Date TBD	³³ Test Date 1/31/17	³⁴ Test Length 24 hrs.	³⁵ Tbg. Pressure ---	³⁶ Csg. Pressure 1140
³⁷ Choke Size 25/64	³⁸ Oil 629	³⁹ Water 1245	⁴⁰ Gas 462		⁴¹ Test Method F

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:
Jana Mendiola

Title:
Regulatory Coordinator

E-mail Address:
janalyn_mendiola@oxy.com

Date: 1/31/17 Phone: 432-685-5936

OIL CONSERVATION DIVISION

Approved by:

Title:

Geologist

Approval Date:

3-8-2017

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Aramis, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
(As-Drilled)

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-43708	Pool Code 96473	Pool Name Piera Crossing Bone Spring, East
Property Code 316106	Property Name CEDAR CANYON "22" FEDERAL COM	Well Number 4H
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 2958.4'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	22	24 SOUTH	29 EAST, N.M.P.M.		2540'	SOUTH	260'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	22	24 SOUTH	29 EAST, N.M.P.M.		2570' 2567'	SOUTH	80' 160'	WEST	EDDY
Dedicated Acres 160	Joint or Infill Y	Consolidation Code	Order No. - NSL 7389	BP - 2562 FSL 336 FWL TP - 2494 FSL 529 FEL					

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NM OIL CONSERVATION

ARTESIA DISTRICT

FEB 22 2017

RECEIVED

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

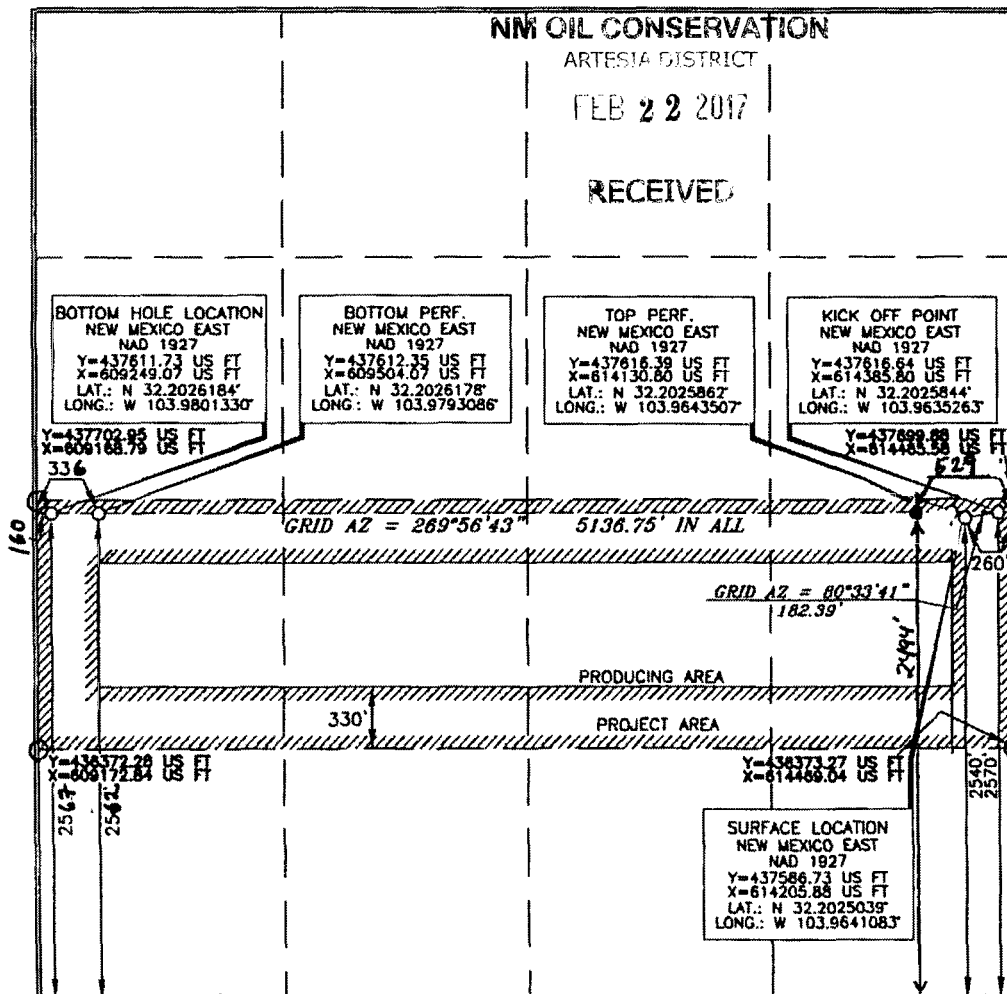
Signature: *[Signature]* Date: **1/31/17**
Jana Mendiola
jlanalyn-mendiola@oxy.com

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from reliable and legal surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: **OCTOBER 27, 2015**
Signature and Seal: *[Signature]*
Professional Surveyor: **15079**

[Signature] 11/5/2015
Certificate Number: **15079**

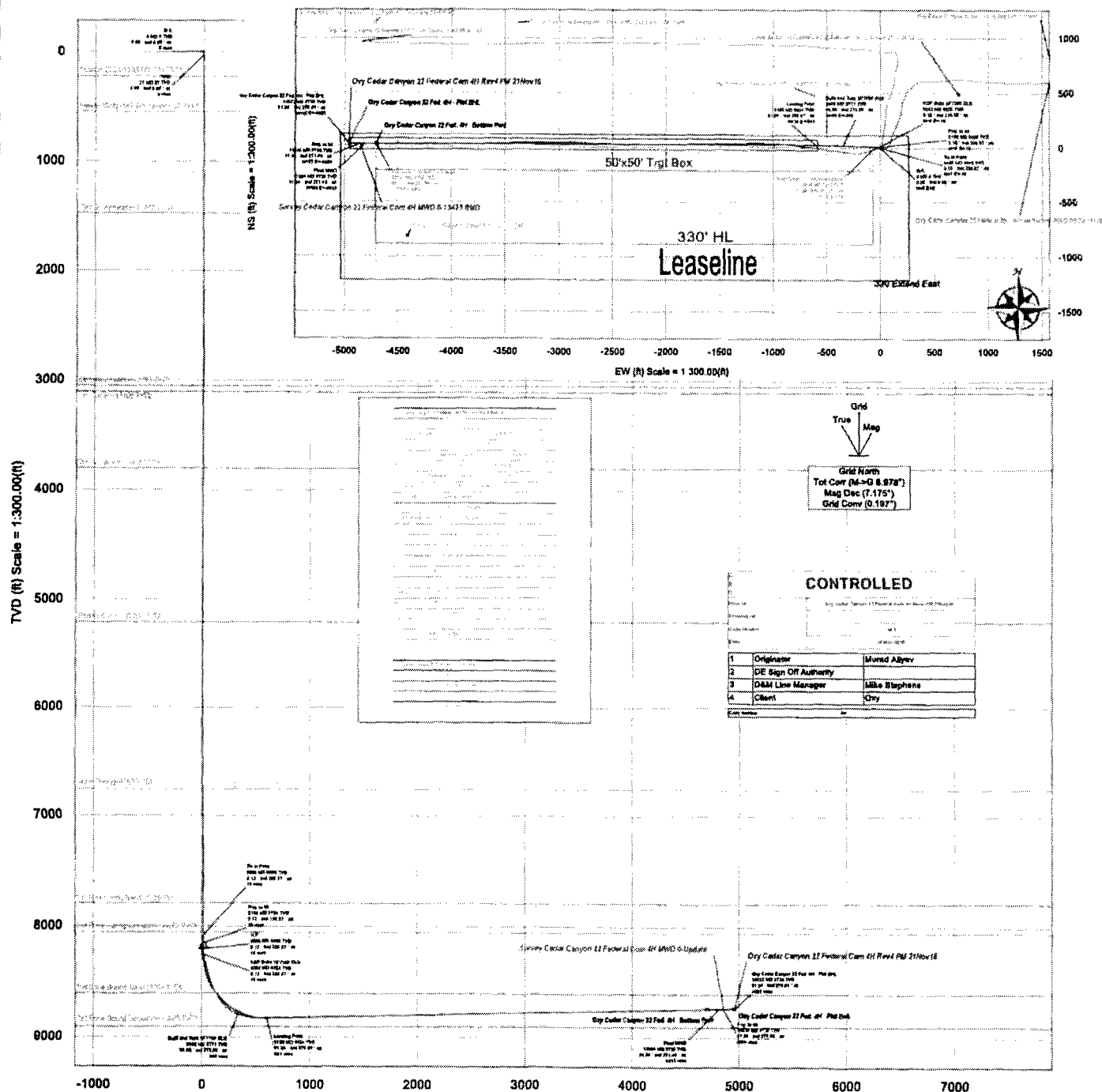


Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Cedar Canyon 22 Federal Com 4H	NM Eddy County (NAD 27)	Oxy Cedar Canyon 22 Federal Com 4H

Survey & Mapping Parameters	Survey Location	Survey Date	Survey Time
Model: NAD83 2011 MagDec: 7.175°	Dip: 90.84° PR: 49183.23447 Gravity PR: 980.667 (9.80665 m/s²)	Date: 21 Nov 2016 Lat: N 32 12 8.81 Long: W 103 57 56.79	Time: 14:00:00 Easting: 437594.72505 Northing: 614069.16 Scale Factor: 0.99992483

Critical Points

Comments	Survey MD (ft)	Inclination (deg)	Azimuth (deg)	IVD (ft)	Sub-Sea IVD	VS (ft)	WS (ft)	EW (ft)	Latitude (deg)	Longitude (deg)	Easting (ftUS)	Northing (ftUS)	DLS (ft/100ft)	Tool Face (deg)
Tie in Point	8085.00	0.13	336.57	8084.92	5100.02	15.40	7.31	-15.36	N 32 12 9.087	W 103 57 50.968	614190.52	437594.04	0.05	336.57
Proy to bit	8150.00	0.13	336.57	8149.92	5165.02	15.46	7.44	-15.42	N 32 12 9.088	W 103 57 50.969	614190.46	437594.17	0.00	336.57
ICP	8200.08	0.13	336.57	8200.00	5215.10	15.50	7.55	-15.47	N 32 12 9.089	W 103 57 50.970	614190.42	437594.28	0.00	336.57
KOP Build 10°/100' DLS	8252.08	0.13	336.57	8252.00	5267.10	15.55	7.66	-15.51	N 32 12 9.090	W 103 57 50.970	614190.37	437594.39	0.00	-0.19
2nd Bone Spring Sand	8631.28	37.98	272.10	8604.00	5619.10	136.79	12.50	-136.73	N 32 12 9.142	W 103 57 52.381	614069.16	437599.23	10.00	272.00
Build and Turn 10°/100' DLS	8901.52	65.00	272.00	8770.72	5785.82	346.20	19.95	-346.10	N 32 12 9.223	W 103 57 54.817	613859.81	437606.68	10.00	-4.49
Landing Point	9164.66	91.24	270.01	8824.41	5839.51	601.42	24.21	-601.31	N 32 12 9.274	W 103 57 57.787	613604.62	437610.94	10.00	
Oxy Cedar Canyon 22 Fed 4H - Plat BHL	13521.57	91.24	270.01	8729.90	5745.00	4957.26	25.00	-4957.20	N 32 12 9.426	W 103 58 48.479	609249.07	437611.73	0.00	





Survey Cedar Canyon 22 Federal Com 4H MWD 0-13435 ftMD Survey **Geodetic Report** **(Def Survey)**

Report Date:	December 16, 2016 - 09:07 AM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	OXY	Vertical Section Azimuth:	270.269 ° (Grid North)
Field:	NM Eddy County (NAD 27)	Vertical Section Origin:	0 000 ft, 0 000 ft
Structure / Slot:	Oxy Cedar Canyon 22 Federal Com 4H / Oxy Cedar Canyon 22 Fed Com 4H	TVD Reference Datum:	RKB
Well:	Oxy Cedar Canyon 22 Federal Com 4H	TVD Reference Elevation:	2984 900 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	2958 400 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.182 °
Survey Name:	Survey Cedar Canyon 22 Federal Com 4H MWD 0-13435 ftMD	Total Gravity Field Strength:	998.4673mgm (9 80665 Based)
Survey Date:	November 21, 2016	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	155 301 ° / 4877 976 ft / 6 062 / 0 553	Total Magnetic Field Strength:	48191.260 nT
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	60.050 °
Location Lat / Long:	N 32° 12' 9 01410" W 103° 57' 50 78983"	Declination Date:	October 25, 2016
Location Grid N/E Y/X:	N 437586 730 ftUS E 614205 880 ftUS	Magnetic Declination Model:	HDGM 2016
CRS Grid Convergence Angle:	0.1868 °	North Reference:	Grid North
Grid Scale Factor:	0.99992403	Grid Convergence Used:	0.1968 °
Version / Patch:	2 10 254 0	Total Corr Mag North->Grid North:	6.9858 °
		Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0 00	0 00	0 00	0 00	0 00	0 00	0 00	N/A	437586 73	614205 88	N 32 12 9 01	W 103 57 50 79
RKB	26 50	0 00	0 00	26 50	0 00	0 00	0 00	0 00	437586 73	614205 88	N 32 12 9 01	W 103 57 50 79
	494 00	0 46	330 71	493 99	0 93	1 64	-0 92	0 10	437588 37	614204 96	N 32 12 9 03	W 103 57 50 80
	509 00	1 05	175 96	508 99	0 95	1 55	-0 94	9 86	437588 28	614204 94	N 32 12 9 03	W 103 57 50 80
	690 00	0 00	0 00	689 98	0 82	-0 10	-0 82	0 58	437586 63	614205 06	N 32 12 9 01	W 103 57 50 80
	871 00	0 07	71 74	870 98	0 72	-0 07	-0 72	0 04	437586 66	614205 16	N 32 12 9 01	W 103 57 50 80
	1334 00	0 00	0 00	1333 98	0 45	0 02	-0 45	0 02	437586 75	614205 43	N 32 12 9 01	W 103 57 50 80
	1426 00	0 09	300 32	1427 98	0 51	0 06	-0 51	0 10	437588 79	614205 37	N 32 12 9 01	W 103 57 50 80
	1522 00	0 11	289 41	1521 98	0 66	0 13	-0 66	0 03	437588 86	614205 22	N 32 12 9 02	W 103 57 50 80
	1804 00	0 04	280 25	1803 98	1 01	0 23	-1 01	0 03	437586 96	614204 87	N 32 12 9 02	W 103 57 50 80
	1993 00	0 15	326 74	1992 98	1 22	0 45	-1 21	0 07	437587 18	614204 67	N 32 12 9 02	W 103 57 50 80
	2087 00	0 22	325 16	2086 98	1 39	0 70	-1 38	0 07	437587 43	614204 50	N 32 12 9 02	W 103 57 50 81
	2181 00	0 35	328 08	2180 98	1 64	1 09	-1 64	0 14	437587 82	614204 24	N 32 12 9 02	W 103 57 50 81
	2276 00	0 51	327 56	2275 98	2 03	1 70	-2 02	0 17	437588 43	614203 86	N 32 12 9 03	W 103 57 50 81
	2653 00	0 00	181 96	2652 97	2 93	3 11	-2 92	0 14	437589 84	614202 96	N 32 12 9 05	W 103 57 50 82
	2936 00	0 29	296 05	2935 97	3 58	3 43	-3 56	0 10	437590 16	614202 32	N 32 12 9 05	W 103 57 50 83
	3218 00	0 00	115 57	3217 97	4 22	3 74	-4 20	0 10	437590 47	614201 68	N 32 12 9 05	W 103 57 50 84
	3500 00	0 04	229 42	3499 97	4 30	3 68	-4 28	0 01	437590 41	614201 60	N 32 12 9 05	W 103 57 50 84
	3595 00	0 04	284 67	3594 97	4 35	3 68	-4 34	0 04	437590 39	614201 55	N 32 12 9 05	W 103 57 50 84
	4065 00	0 02	0 00	4064 87	4 51	3 79	-4 49	0 01	437590 52	614201 39	N 32 12 9 05	W 103 57 50 84
	4537 00	0 07	83 11	4536 87	4 23	3 90	-4 21	0 01	437590 83	614201 67	N 32 12 9 05	W 103 57 50 84
	5008 00	0 06	0 00	5007 97	3 94	4 19	-3 92	0 02	437590 92	614201 66	N 32 12 9 06	W 103 57 50 84
	5480 00	0 13	288 38	5479 97	4 48	4 42	-4 46	0 03	437591 15	614201 42	N 32 12 9 06	W 103 57 50 84
	5762 00	0 11	327 16	5761 97	4 95	4 64	-4 92	0 04	437591 37	614200 96	N 32 12 9 06	W 103 57 50 85
	5857 00	0 07	141 34	5856 97	4 96	4 67	-4 94	0 19	437591 40	614200 94	N 32 12 9 06	W 103 57 50 85
	6045 00	0 04	109 21	6044 97	4 83	4 56	-4 80	0 02	437591 29	614201 08	N 32 12 9 06	W 103 57 50 85
	6139 00	0 11	254 65	6138 97	4 88	4 52	-4 86	0 15	437591 25	614201 02	N 32 12 9 06	W 103 57 50 85
	6234 00	0 18	294 96	6233 97	5 11	4 56	-5 08	0 13	437591 29	614200 80	N 32 12 9 06	W 103 57 50 85
	6423 00	0 20	220 87	6422 97	5 59	4 44	-5 57	0 12	437591 17	614200 31	N 32 12 9 06	W 103 57 50 85
	6611 00	0 20	272 54	6610 97	6 13	4 20	-6 11	0 09	437590 93	614199 77	N 32 12 9 06	W 103 57 50 85
	6894 00	1 01	293 15	6893 95	8 92	5 21	-8 90	0 29	437591 93	614196 98	N 32 12 9 07	W 103 57 50 89
	7083 00	0 44	278 03	7082 93	11 18	5 94	-11 15	0 32	437592 67	614194 73	N 32 12 9 07	W 103 57 50 92
	7271 00	0 37	286 51	7270 93	12 48	6 18	-12 45	0 05	437592 91	614193 43	N 32 12 9 08	W 103 57 50 93
	7553 00	0 35	281 07	7552 92	14 20	6 61	-14 17	0 01	437593 34	614191 71	N 32 12 9 08	W 103 57 50 95
	7742 00	0 15	306 05	7741 92	14 97	6 87	-14 93	0 12	437593 59	614190 95	N 32 12 9 08	W 103 57 50 96
	7930 00	0 07	311 12	7929 92	15 26	7 09	-15 22	0 04	437593 82	614190 66	N 32 12 9 08	W 103 57 50 97
	8085 00	0 13	336 57	8084 92	15 40	7 31	-15 36	0 05	437594 04	614190 52	N 32 12 9 09	W 103 57 50 97
	8232 00	0 34	227 88	8231 81	19 20	4 07	-19 18	2 71	437590 80	614186 71	N 32 12 9 06	W 103 57 51 01
	8294 00	12 56	240 62	8293 11	28 64	-0 67	-28 64	14 13	437586 06	614179 24	N 32 12 9 01	W 103 57 51 10
	8388 00	18 96	252 82	8383 56	50 12	-10 21	-50 17	7 63	437576 52	614165 71	N 32 12 8 91	W 103 57 51 37
	8482 00	16 44	257 50	8473 10	77 66	-17 80	-77 75	3 08	437569 13	614128 13	N 32 12 8 84	W 103 57 51 70
	8575 00	27 15	246 48	8559 36	110 02	-28 95	-110 16	12 28	437557 78	614095 73	N 32 12 8 73	W 103 57 52 07
	8669 00	35 39	256 68	8639 69	156 21	-43 82	-156 43	10 39	437542 91	614049 46	N 32 12 8 59	W 103 57 52 61
	8763 00	45 30	270 59	8711 39	216 34	-49 77	-216 59	14 19	437538 96	613989 30	N 32 12 8 53	W 103 57 53 31
	8880 00	64 83	277 05	8778 12	311 49	-42 77	-311 71	17 28	437543 96	613894 20	N 32 12 8 60	W 103 57 54 42
	8975 00	76 62	277 89	8809 42	400 30	-31 11	-400 46	12 44	437555 62	613805 45	N 32 12 8 72	W 103 57 55 45
	9030 00	85 32	278 99	8818 05	454 01	-23 14	-454 14	15 94	437563 59	613751 78	N 32 12 8 80	W 103 57 56 08
	9135 00	91 86	277 58	8820 54	557 90	-8 02	-557 95	6 46	437578 71	613647 97	N 32 12 8 95	W 103 57 57 28
	9229 00	90 93	275 70	8818 17	651 29	2 86	-651 28	2 29	437585 59	613554 65	N 32 12 8 06	W 103 57 58 37
	9322 00	90 72	274 89	8818 83	743 92	11 44	-743 88	0 90	437598 17	613462 08	N 32 12 9 15	W 103 57 59 45
	9415 00	90 48	274 82	8815 85	836 82	19 31	-836 54	0 27	437606 04	613369 41	N 32 12 9 23	W 103 58 0 52
	9509 00	91 34	274 92	8814 38	930 31	27 29	-930 19	0 92	437614 01	613275 77	N 32 12 9 32	W 103 58 1 61
	9603 00	91 69	273 34	8811 98	1024 06	34 05	-1023 91	1 72	437620 78	613182 05	N 32 12 9 39	W 103 58 2 70
	9696 00	91 24	270 38	8809 50	1116 99	37 07	-1116 82	3 22	437623 80	613089 15	N 32 12 9 42	W 103 58 3 79
	9790 00	90 55	269 04	8808 03	1210 97	36 59	-1210 80	1 60	437623 32	612995 17	N 32 12 9 42	W 103 58 4 88
	9884 00	90 83	269 40	8806 90	1304 95	35 32	-1304 78	0 49	437622 04	612901 20	N 32 12 9 41	W 103 58 5 97
	9977 00	91 07	269 14	8805 36	1397 92	34 13	-1397 76	0 38	437620 85	612808 23	N 32 12 9 40	W 103 58 7 06
	10164 00	91 00	269 46	8801 98	1584 86	31 85	-1584 72	0 18	437618 57	612621 28	N 32 12 9 38	W 103 58 9 23
	10258 00	90 59	269 02	8800 67	1678 83	30 60	-1678 70	0 64	437617 33	612527 31	N 32 12 9 37	W 103 58 10 32
	10352 00	91 27	269 14	8799 15	1772 80	29 09	-1772 68	0 73	437615 82	612433 34	N 32 12 9 36	W 103 58 11 42
	10445 00	92 58	269 22	8796 02	1865 73	27 76	-1865 61	1 41	437614 49	612340 41	N 32 12 9 35	W 103 58 12 50
	10632 00	90 96	269 17	8790 25	2052 60	25 13	-2052 50	0 87	437611 86	612153 54	N 32 12 9 33	W 103 58 14 68
	10726 00	91 13	269 36	8788 53	2146 57	23 93	-2146 47	0 27	437610 66	612059 57	N 32 12 9 32	W 103 58 15 77
	10913 00	91 00	271 22	8785 06	2333 53	24 88	-2333 43	1 00	437611 80	611872 63	N 32 12 9 34	W 103 58 17 94
	11006 00	92 51	271 20	8782 21	2426 47	26 84	-2426 36	1 62	437613 57	611779 70	N 32 12 9 36	W 103 58 19 03
	11101 00	91 21	271 23	8779 13	2521 40	28 85	-2521 29	1 37	437615 58	611684 79	N 32 12 9 38	W 103 58 20 13
	11195 00	90 89	271 49	8777 40	2615 37	31 08	-2615 25	0 44	437617 81	611590 84	N 32 12 9 41	W 103 58 21 22
	11289 00	90 41	272 27	8778 34	2709 33	34 17	-2709 19	0 97	437620 89	611498 90	N 32 12 9 44	W 103 58 22 32
	11382 00	90 34	272 04	8775 73	2802 28	37 66	-2802 12	0 26	437624 39	611403 98	N 32 12 9 48	W 103 58 23 40
	11477 00	91 92	270 72	8773 85	2897 24	39 95	-2897 07	2 17	437626 68	611309 03	N 32 12 9 51	W 103 58 24 50
	11684 00	90 79	269 44	8769 43	3084 18	40 21	-3084 01	0 91	437626 94	611122 11	N 32 12 9 52	W 103 58 26 66

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	11759.00	89.55	269.39	8789.15	3179.16	39.24	-3179.01	1.31	437625.97	611027.12	N 32 12 9.51 W	103 58 27.78
	11853.00	90.89	268.91	8768.95	3273.14	37.85	-3272.99	1.32	437624.57	610933.14	N 32 12 9.50 W	103 58 28.88
	11947.00	91.68	269.17	8767.01	3367.10	36.27	-3366.96	1.09	437623.00	610839.18	N 32 12 9.49 W	103 58 29.97
	12041.00	91.72	267.14	8764.22	3460.99	33.25	-3460.86	2.16	437619.97	610745.29	N 32 12 9.46 W	103 58 31.06
	12134.00	92.10	267.40	8761.12	3553.81	28.82	-3553.71	0.50	437615.55	610652.45	N 32 12 9.42 W	103 58 32.15
	12228.00	91.68	268.31	8758.02	3647.70	26.12	-3647.61	2.08	437612.85	610558.55	N 32 12 9.39 W	103 58 33.24
	12322.00	91.51	268.90	8755.40	3741.64	24.86	-3741.56	0.47	437611.38	610464.61	N 32 12 9.38 W	103 58 34.33
	12416.00	91.96	269.29	8752.58	3835.58	23.17	-3835.51	0.63	437609.90	610370.67	N 32 12 9.37 W	103 58 35.43
	12510.00	91.27	269.04	8749.91	3929.52	21.80	-3929.46	0.78	437608.53	610276.73	N 32 12 9.36 W	103 58 36.52
	12604.00	91.10	269.13	8747.97	4023.48	20.30	-4023.43	0.20	437607.03	610182.77	N 32 12 9.35 W	103 58 37.61
	12698.00	90.76	268.58	8746.44	4117.44	18.42	-4117.40	0.69	437605.15	610088.80	N 32 12 9.33 W	103 58 38.71
	12792.00	91.41	269.10	8744.60	4211.39	16.52	-4211.36	0.89	437603.25	609994.85	N 32 12 9.32 W	103 58 39.80
	12885.00	91.41	270.04	8742.37	4304.35	15.82	-4304.33	1.01	437602.55	609901.89	N 32 12 9.31 W	103 58 40.88
	12979.00	91.20	270.98	8740.23	4398.33	16.66	-4398.30	1.02	437603.39	609807.92	N 32 12 9.33 W	103 58 41.97
	13073.00	90.78	271.03	8738.62	4492.31	18.31	-4492.27	0.47	437605.04	609713.96	N 32 12 9.34 W	103 58 43.07
	13166.00	91.48	271.27	8736.80	4585.28	20.17	-4585.23	0.82	437606.90	609621.00	N 32 12 9.37 W	103 58 44.16
	13260.00	92.23	271.25	8733.78	4679.21	22.24	-4679.16	0.80	437608.97	609527.08	N 32 12 9.39 W	103 58 45.24
	13354.00	91.79	271.58	8730.48	4773.14	24.56	-4773.07	0.58	437611.29	609433.18	N 32 12 9.42 W	103 58 46.34
Final MWD	13394.00	91.34	271.49	8729.37	4813.11	25.63	-4813.04	1.15	437612.36	609393.21	N 32 12 9.43 W	103 58 46.80
Proj to bit	13435.00	91.34	271.49	8728.41	4854.09	26.70	-4854.02	0.00	437613.42	609352.24	N 32 12 9.44 W	103 58 47.28

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	26.500	Act Stns	30.000	NAL_MWD_PLUS_0.5_DEG- Depth Only	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD 0-13435 ftMD
	1	26.500	494.000	1/98.425	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD
	1	494.000	871.000	Act Stns	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD
	1	871.000	1334.000	1/98.425	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD
	1	1334.000	2276.000	Act Stns	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD
	1	2276.000	2653.000	1/98.425	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD
	1	2653.000	3595.000	Act Stns	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD
	1	3595.000	4065.000	1/98.425	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD
	1	4065.000	4065.000	Act Stns	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD
	1	4065.000	4537.000	1/98.425	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD
	1	4537.000	4537.000	Act Stns	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD
	1	4537.000	5008.000	1/98.425	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD
	1	5008.000	5008.000	Act Stns	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD
	1	5008.000	5480.000	1/98.425	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD
	1	5480.000	13435.000	Act Stns	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Survey Cedar Canyon 22 Federal Com 4H MWD