

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

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

Form C-104
Revised August 1, 2011

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 30-015-43642	⁵ Pool Name Pierce Crossing Bone Spring, East	⁶ Pool Code 96473
⁷ Property Code: 315242	⁸ Property Name: Cedar Canyon 22 Federal	⁹ Well Number: 21H

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	230	East	Eddy

¹¹ Bottom Hole Location Top Perf-1842 FNL 390 FEL Bottom Perf- 1783 FNL 334 FWL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	22	24S	29E		1775	North	185	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

IV. Well Completion Data

²¹ Spud Date 10/25/16	²² Ready Date 1/26/17	²³ TD 13620'M 8718'V	²⁴ PBDT 13558'M 8720'V	²⁵ Perforations 8887-13471'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4"	482'	382		
9-7/8"	7-5/8"	8300'	2627		
6-3/4"	5-1/2" X 4-1/2"	13610'	830		

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 940
³⁷ Choke Size 29/64	³⁸ Oil ✓ 316	³⁹ Water ✓ 1517	⁴⁰ Gas ✓ 433		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:

Approval Date:

Bayless

DD SUPERVISOR

01 FEB 17

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Grande 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) 476-3463

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 30-015-43642	Pool Code 96473	Pool Name Pierce Crossing Pine Spring, East
Property Code 315242	Property Name CEDAR CANYON "22" FEDERAL	Well Number 21H
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
1	22	24 SOUTH	29 EAST, N.M.P.M.		2540'	SOUTH	230'	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
E	22	24 SOUTH	29 EAST, N.M.P.M.		1830' 1775'	NORTH	180' 185'	WEST	EDDY
Dedicated Acres NO	Joint or Infill 160	Consolidation Code	Order No. BP-1783 FNL 324 FWL TP-1842 FNL 390 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.

		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 unleased 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: <i>[Signature]</i> Date: 1/31/17 Jana Mendiola Email Address: jana-mendiola@oxy.com SURVEYOR CERTIFICATION I hereby certify that the information shown on this plat was obtained from field notes or actual surveys made by myself under my supervision, and that the same is true and correct to the best of my belief. Date of Survey: OCTOBER 27, 2016 Signature and Seal of Professional Land Surveyor: <i>[Signature]</i> Certificate Number: 15079
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Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

December 7, 2016

Oxy USA Incorporated
5 Greenway Plaza Ste 110
Houston, TX 77046-0521

Re:

22, 24S, 29E, Eddy NM
-32.20250 -103.96401

CLIENT: Oxy USA Incorporated
WELL: Cedar Canyon 22 Federal 21H
FIELD: Pierce Crossing

RIG: H&P639
COUNTY: Eddy
API NO: 30-015-43642
JOB NO: 16MLD2124

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Kalu Uga FE	Cedar Canyon 22 Federal 21H Original Hole	448.00 Ft to 13563.00 Ft	November 25, 2016 to December 5, 2016	TelePacer SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Dana Carlos
Field Service Manager

Oilfield Services, Central U.S. Land

Schlumberger

**Schlumberger Drilling and Measurements
Drilling Group**

7220 W I-H 20

Midland, Texas 79706

Phone: (432) 742-5400 (Main)

Fax: (432) 742-5606 (Shared)

Well Reference:

22, 24S, 29E, Eddy NM

-32.20250 -103.96401

I, Kalu Uga certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of November 25, 2016 through December 05, 2016, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 448.00 feet to a depth of 13563.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Oxy USA Incorporated for the Cedar Canyon 22 Federal 21H Well (Original Hole) API No. 30-015-43642 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By

Kalu Uga

FE



Subscribed and Sworn to before me this 13 day of December (month) 2016 (yr)

My Commission expires:

4-10-19

Tim Hughes

Notary Public

Los Angeles California

(County State)

TIM HUGHES
NOTARY PUBLIC
SEE ADDENDUM PAGE
COMM EXP MAY 10 2019

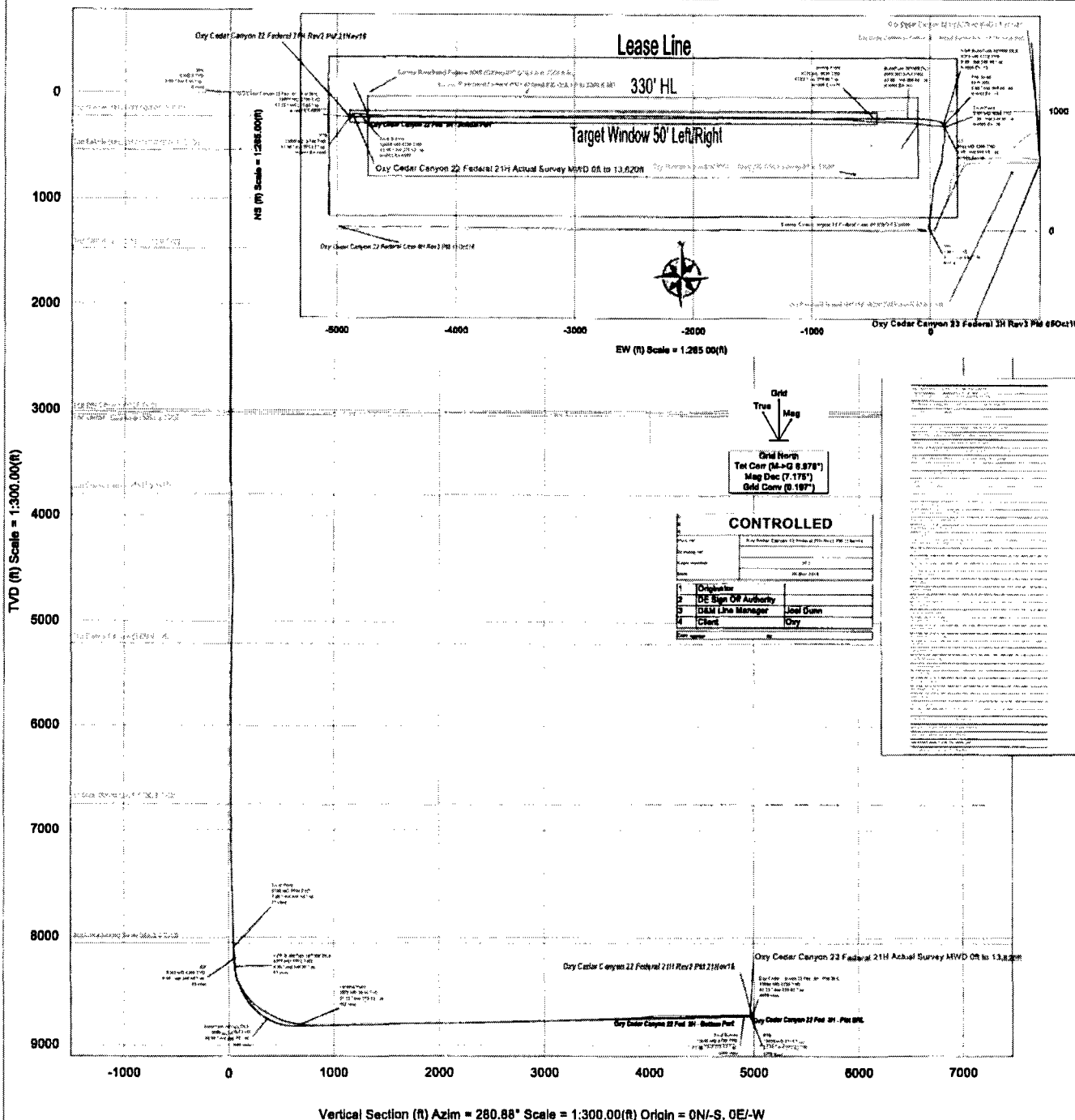

(signature)



Borehole:	Original Borehole	Well:	Oxy Cedar Canyon 22 Federal 21H	Field:	NM Eddy County (NAD 27)	Structure:	Oxy Cedar Canyon 22 Federal 21H
Survey & Reference Parameters							
Model:	400M 0516	Dip:	00.400°	Date:	21-Nov-2016	Location:	NAD83 New Mexico State Plane, Southern Zone, UTM Feet
MagDev:	7.17°	PG:	00101.325eT	Gravity PG:	998.037 m/s² (9.80665 m/s²)	Lat:	W 32 12 0.81
						Long:	W 103 57 36.44
						Northing:	437086.71960
						Easting:	614321.89910
						Scale Feet:	0.00000001
						Structure:	Oxy Cedar Canyon 22 Fed 21H
						Well:	Oxy Cedar Canyon 22 Fed 21H
						Plan:	Oxy Cedar Canyon 22 Federal 21H Rev2 PG 01Rev16

Critical Points

Comments	Survey MWD	Inclination (deg)	Azimuth (deg)	TVD (ft)	Sub-Sea TVD	VS (ft)	NS (ft)	EW (ft)	Latitude (deg)	Longitude (deg)	Easting (ftUS)	Northing (ftUS)	QUS (°/100ft)	Tool Face (deg)
Tie in Point	8195.00	7.30	346.40	8093.75	5108.85	46.80	865.45	118.69	N 32 12 17.573	W 103 57 49.025	614354.56	438452.09	1.41	0.00
ICP	8302.27	8.46	346.40	8200.00	5215.10	52.90	879.74	115.23	N 32 12 17.714	W 103 57 49.064	614351.10	438466.38	1.08	346.40
Proj to bit	8315.00	8.60	346.40	8212.59	5227.69	53.68	881.58	114.79	N 32 12 17.733	W 103 57 49.070	614350.66	438468.22	1.08	0.00
KOP Build/Turn 10°/100' DLS	8374.88	8.60	346.40	8271.80	5286.90	57.39	890.28	112.68	N 32 12 17.819	W 103 57 49.094	614348.55	438476.92	0.00	-81.07
Build/Turn 10°/100' DLS	8978.06	62.00	269.98	8757.27	5772.37	366.66	938.57	-192.97	N 32 12 18.307	W 103 57 52.649	614042.92	438525.20	10.00	0.07
Landing Point	9270.30	91.22	270.02	8824.20	5839.30	642.83	938.56	-474.20	N 32 12 18.316	W 103 57 55.922	613761.72	438525.20	10.00	0.00
Oxy Cedar Canyon 22 Fed 3H - Plat BHL	13686.11	91.22	270.02	8729.90	5745.00	4978.49	939.72	-4889.00	N 32 12 18.475	W 103 58 47.301	609347.26	438526.36	0.00	



Oxy Cedar Canyon 22 Federal 21H Actual Survey MWD Off to Update Survey Report (Non-Def Survey)



Report Date: December 05, 2016 - 07:25 PM Client: OXY Field: NM Eddy County (NAD 27) Structure / Slot: Oxy Cedar Canyon 22 Federal 21H / Oxy Cedar Canyon 22 Fed. 21H Well: Oxy Cedar Canyon 22 Federal 21H Borehole: Original Borehole UWI / API#: Unknown / Unknown Survey Name: Oxy Cedar Canyon 22 Federal 21H Actual Survey MWD Off to Update Survey Date: October 31, 2016 Tort / AHD / DDI / ERD Ratio: 223.077' / 5887.942 ft / 6.307 / 0.688 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 12' 9.01288", W 103° 57' 50.44088" Location Grid N/E Y/X: N 437586.710 ftUS, E 614235.880 ftUS CRS Grid Convergence Angle: 0.1968 ° Grid Scale Factor: 0.99992404 Version / Patch: 2.10.254.0	Survey / DLS Computation: Minimum Curvature / Lubinski Vertical Section Azimuth: 280.880 ° (Grid North) Vertical Section Origin: 0.000 ft, 0.000 ft TVD Reference Datum: RKB TVD Reference Elevation: 2984.900 ft above MSL Seabed / Ground Elevation: 2958.400 ft above MSL Magnetic Declination: 7.181 ° Total Gravity Field Strength: 998.4673mgn (9.80665 Based) Gravity Model: GARM Total Magnetic Field Strength: 48189.480 nT Magnetic Dip Angle: 60.049 ° Declination Date: October 31, 2016 Magnetic Declination Model: HDGM 2016 North Reference: Grid North Grid Convergence Used: 0.1968 ° Total Corr Mag North->Grid North: 6.9838 ° Local Coord Referenced To: Structure Reference Point	
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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	281.82M
448.00	0.24	281.82	448.00	0.94	0.19	0.94	0.94	281.82	0.05	8.76M	
689.00	0.48	3.75	689.99	1.57	1.30	-1.35	1.87	314.06	0.21	12.73M	
870.00	0.59	12.73	869.99	1.99	2.97	-1.09	3.16	339.81	0.08	358.71M	
1051.00	0.90	358.71	1050.97	1.90	5.30	-0.92	5.38	350.17	0.20	350.62M	
1239.00	0.88	350.62	1239.95	2.71	8.20	-1.19	8.28	351.76	0.07	330.25M	
1427.00	0.90	330.25	1426.93	4.17	10.91	-2.15	11.12	348.82	0.17	313.19M	
1616.00	0.84	313.19	1615.91	6.31	13.14	-3.90	13.71	348.47	0.14	287.71M	
1710.00	0.88	287.71	1709.89	7.59	13.95	-5.04	14.83	340.13	0.25	282.42M	
1804.00	1.28	282.42	1803.88	9.28	14.50	-6.67	15.96	335.21	0.47	278.62M	
1898.00	1.43	278.62	1897.85	11.46	14.85	-8.82	17.27	329.31	0.26	358.22M	
1992.00	0.51	358.20	1991.84	12.72	15.41	-10.00	18.37	327.08	1.54	180.06M	
2086.00	0.44	180.06	2085.84	12.63	15.49	-9.89	18.37	327.45	1.00	334.25M	
2181.00	0.55	334.25	2180.84	12.72	15.55	-9.95	18.47	327.37	1.04	65.22M	
2275.00	0.51	86.22	2274.84	12.58	15.99	-9.74	18.72	328.66	0.94	179.37M	
2370.00	0.20	179.37	2369.84	12.14	15.85	-9.31	18.38	329.66	0.59	5.38M	
2464.00	0.11	5.36	2463.84	12.11	15.78	-9.30	18.32	329.47	0.33	152.49M	
2558.00	0.11	152.49	2557.84	12.07	15.79	-9.28	18.30	329.82	0.22	95.53M	
2653.00	0.11	95.50	2652.84	11.92	15.70	-9.12	18.15	329.84	0.11	235.59M	
2747.00	0.22	235.59	2746.84	11.96	15.59	-9.16	18.09	329.50	0.33	88.28M	
2841.00	0.09	56.28	2840.84	12.03	15.52	-9.27	18.08	329.16	0.33	310.46M	
2935.00	0.34	310.46	2934.84	12.15	15.69	-9.36	18.27	329.20	0.50	306.52M	
3029.00	0.21	306.52	3028.83	12.55	15.97	-9.71	18.69	328.70	0.08	80.48M	
3123.00	0.09	80.48	3122.83	12.71	16.12	-9.84	18.89	328.90	0.41	209.94M	
3218.00	0.09	209.94	3217.83	12.66	16.06	-9.80	18.81	328.80	0.18	169.07M	
3312.00	0.09	169.07	3311.83	12.65	15.92	-9.83	18.71	328.32	0.07	281.11M	
3406.00	0.11	231.11	3405.83	12.69	15.79	-9.88	18.63	327.96	0.11	358.68M	
3500.00	3.21	358.68	3499.79	13.30	18.37	-10.01	20.92	331.40	2.48	1.01M	
3594.00	6.94	1.01	3593.40	14.83	26.68	-9.97	28.48	339.50	3.97	0.8M	
3688.00	10.90	0.80	3686.24	17.38	41.25	-9.75	42.39	346.70	4.21	11.68M	
3782.00	15.89	4.54	3777.66	20.34	62.98	-8.61	63.56	352.22	5.39	22.14M	
3877.00	19.21	8.59	3868.23	22.40	91.41	-5.24	91.58	356.72	3.72	0.28M	
3971.00	20.61	8.61	3966.81	23.67	123.06	-0.45	123.06	359.79	1.49	30.52M	
4065.00	20.70	8.76	4064.57	24.94	155.83	4.85	155.90	1.87	0.11	123.62L	
4159.00	20.44	7.82	4132.57	26.49	188.52	9.26	188.75	2.81	0.51	34.59L	
4253.00	21.29	8.02	4220.41	28.87	221.78	13.23	222.18	3.41	1.09	148.52L	
4348.00	20.96	5.33	4309.03	31.98	255.83	16.61	256.37	3.72	0.43	151.61L	
4442.00	20.59	4.78	4396.91	35.36	289.04	19.55	289.70	3.87	0.45	158.89L	
4536.00	19.87	5.58	4485.11	38.60	321.42	22.47	322.20	4.00	0.82	164.32L	
4631.00	17.29	8.03	4575.16	40.80	351.47	25.01	352.49	4.29	2.84	167.89L	
4725.00	15.78	10.36	4665.27	41.61	377.86	30.28	379.07	4.58	1.77	148.86L	
4819.00	13.83	13.01	4754.13	40.91	401.96	35.49	402.98	5.06	2.30	148.33L	
4913.00	12.44	19.44	4847.65	38.58	421.86	41.80	423.92	5.66	1.93	179.82L	
5008.00	11.82	19.48	4840.53	35.61	440.68	48.44	443.83	6.27	0.66	8.21L	
5102.00	12.53	18.93	5032.41	32.74	459.40	54.96	462.68	6.82	0.76	178.03L	
5196.00	11.85	18.78	5124.33	30.01	478.03	61.32	481.98	7.31	0.84	186.74L	
5291.00	11.62	16.98	5217.37	27.35	496.16	67.52	500.74	7.75	0.05	170.99L	
5385.00	10.88	19.82	5309.57	24.87	513.48	73.87	518.70	8.15	0.82	9.85L	
5479.00	11.54	19.03	5401.78	21.99	530.89	79.61	536.82	8.53	0.73	151.03L	
5573.00	10.99	17.42	5493.97	19.83	548.12	85.36	554.73	8.85	0.87	77.76L	
5667.00	11.16	13.87	5586.22	18.14	565.50	90.22	572.66	9.07	0.75	38.51L	
5762.00	12.17	10.15	5679.28	17.79	584.29	94.19	591.83	9.18	1.38	172.26L	
5856.00	11.16	9.44	5771.31	18.14	603.01	97.43	610.84	9.19	1.09	166.1L	
5950.00	9.84	7.32	5863.74	18.64	619.95	99.98	627.96	9.18	1.45	175.91L	
6045.00	8.68	6.97	5957.50	19.81	635.12	101.91	643.24	9.12	1.22	138.15L	
6139.00	7.91	12.20	6050.52	20.14	648.48	104.14	656.79	9.12	1.16	8.84M	
6233.00	7.49	8.60	6143.67	20.24	660.86	106.42	669.37	9.15	0.88	6.01M	
6328.00	6.90	8.01	6237.32	20.87	672.96	107.84	681.25	9.12	0.71	3.98M	
6422.00	6.02	3.98	6331.32	22.04	683.19	108.87	691.81	9.05	0.97	5.03M	
6516.00	5.56	5.09	6424.54	22.10	692.64	109.82	701.25	8.99	0.50	6.11M	
6611.00	4.90	6.11	6519.45	23.90	701.26	110.45	709.91	8.95	0.70	4.29M	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (ft/100ft)	TF (°)
	6705.00	4.40	4.29	6613.14	24.65	709.85	111.15	717.51	8.81	0.56	8.70M
	6800.00	3.98	8.78	6707.88	25.19	715.74	111.92	724.44	8.89	0.56	19.42M
	6894.00	5.80	19.42	6801.54	24.60	723.45	114.00	732.37	8.95	2.16	24.23M
	6988.00	7.85	24.23	6894.87	22.42	733.78	118.21	743.24	9.15	2.26	20.77M
	7082.00	8.37	20.77	6987.33	19.78	746.03	123.27	758.15	9.38	0.78	136.19L
	7176.00	7.08	9.64	7081.08	18.71	758.14	126.67	768.65	9.49	2.10	353.16M
	7271.00	5.82	353.16	7173.48	20.30	768.70	127.08	778.13	9.30	2.34	348.54M
	7365.00	7.05	349.54	7268.89	23.85	779.10	125.48	789.14	9.15	1.38	1.6M
	7459.00	8.30	1.60	7361.64	27.18	789.37	124.83	802.11	8.94	3.00	97.3R
	7553.00	9.25	4.66	7454.71	29.22	807.49	125.45	817.18	8.83	0.53	166.22L
	7647.00	6.38	358.28	7547.83	31.18	820.25	128.91	829.86	8.73	3.18	342.77M
	7741.00	3.19	342.77	7641.49	33.58	827.98	124.97	837.36	8.58	3.64	335.81M
	7835.00	3.21	335.81	7735.34	36.30	832.98	123.12	841.93	8.41	0.41	882.92M
	7930.00	4.29	352.92	7830.14	38.93	838.83	121.59	847.60	8.25	1.63	3.01M
	8024.00	5.87	3.01	7923.79	40.66	846.96	121.40	855.62	8.16	1.73	348.44M
	8118.00	6.24	348.44	8017.28	43.23	856.80	120.62	865.05	8.02	1.71	348.44M
	8195.00	7.30	348.40	8083.75	46.86	865.48	118.84	873.85	7.81	1.41	291.04M
	8377.00	4.34	291.04	8274.91	58.44	879.18	109.48	885.97	7.10	3.30	266.67M
	8458.00	7.79	266.67	8305.74	61.83	879.48	108.29	885.88	6.89	13.85	261.16M
	8501.00	19.55	261.16	8395.95	82.47	878.71	84.53	880.78	5.51	12.72	28.3R
	8595.00	29.58	271.81	8481.37	120.29	874.84	46.68	878.13	2.99	11.59	23.22R
	8689.00	41.98	279.33	8557.52	174.86	880.71	-8.78	880.76	359.43	14.02	10.49L
	8783.00	49.40	277.53	8623.13	242.01	890.60	-75.27	890.68	355.17	8.01	18.82L
	8876.00	59.35	274.07	8677.25	317.18	897.99	-150.38	910.49	350.49	11.12	23.74L
	8970.00	68.80	271.90	8721.89	399.03	902.26	-282.91	931.83	345.53	5.15	7.89R
	9064.00	68.23	272.56	8760.19	483.91	905.61	-318.70	960.05	340.61	4.76	2.19L
	9157.00	78.10	272.14	8798.30	572.04	909.25	-487.74	986.48	385.85	11.70	58.88R
	9250.00	79.66	273.01	8797.82	633.31	912.03	-469.60	1025.83	332.76	1.62	29.12R
	9342.00	83.83	275.34	8813.28	788.46	919.75	-575.18	1064.79	327.98	4.45	8.1R
	9421.00	91.24	276.13	8817.32	831.92	929.13	-688.55	1144.66	324.26	7.93	89.17L
	9515.00	91.31	270.85	8815.22	825.09	934.93	-782.32	1206.33	320.81	5.51	8.13R
	9702.00	91.38	270.86	8810.83	1109.24	938.05	-949.24	1334.54	314.86	0.04	116.57L
	9888.00	91.34	270.88	8808.42	1292.39	941.03	-1135.17	1474.30	309.88	0.05	138.72L
	10078.00	90.93	270.52	8802.70	1477.39	943.33	-1323.11	1624.86	305.49	0.29	59.74R
	10263.00	91.00	270.64	8799.55	1681.28	946.22	-1510.08	1781.51	302.04	0.07	51.33R
	10449.00	91.20	270.89	8795.98	1844.42	947.71	-1698.03	1942.85	299.20	0.17	169.05L
	10637.00	90.89	270.88	8794.55	2029.53	950.53	-1863.87	2110.18	296.77	0.17	170.79L
	10824.00	90.52	270.77	8790.25	2213.63	953.14	-2070.94	2279.75	294.71	0.20	49.4R
	11012.00	90.68	270.84	8788.44	2396.72	955.78	-2258.91	2458.80	292.93	0.05	74.93R
	11105.00	90.65	271.10	8787.44	2490.32	957.35	-2351.90	2539.28	292.15	0.29	7.25L
	11198.00	91.20	271.03	8785.94	2581.96	959.08	-2444.87	2626.25	291.42	0.60	83.56L
	11292.00	91.07	268.95	8784.08	2674.23	959.07	-2538.84	2713.95	290.69	2.22	90L
	11385.00	91.07	268.92	8782.34	2765.21	957.34	-2631.81	2805.52	289.99	0.03	7.95R
	11478.00	92.00	269.05	8779.85	2856.17	955.69	-2724.78	2887.50	289.33	1.01	129.3L
	11572.00	91.82	268.83	8778.72	2948.09	953.95	-2818.69	2975.75	288.70	0.39	18.74R
	11665.00	92.75	269.11	8773.01	3039.01	952.28	-2911.60	3063.38	288.11	1.04	142.62R
	11758.00	92.58	269.34	8768.89	3129.99	950.34	-3004.48	3151.39	287.56	0.23	161.16L
	11852.00	92.17	269.10	8764.79	3221.95	949.58	-3098.40	3240.65	287.04	0.46	155.51L
	12040.00	91.27	268.69	8759.15	3405.78	945.96	-3288.28	3418.72	286.06	0.53	48.39R
	12133.00	91.45	268.90	8756.94	3496.68	944.01	-3379.23	3508.61	285.61	0.30	2.12R
	12320.00	91.98	268.92	8751.33	3679.53	940.45	-3568.11	3688.04	284.77	0.29	51.22L
	12413.00	92.03	268.87	8748.07	3770.44	938.66	-3659.04	3777.52	284.39	0.07	68.3L
	12445.00	92.34	268.09	8748.85	3801.57	937.81	-3851.01	3958.25	284.26	2.82	40.7R
	12632.00	95.83	271.11	8733.53	3984.54	938.50	-3877.48	3988.96	283.58	2.47	179.69R
	12788.00	92.18	271.13	8728.98	4076.34	938.53	-3971.21	4080.58	283.29	3.90	157.1R
	12820.00	91.88	271.24	8723.83	4169.55	940.27	-4065.14	4172.47	283.02	0.52	136.21R
	12914.00	90.72	272.18	8721.98	4262.82	943.06	-4159.06	4264.85	282.78	1.41	145.05L
	13008.00	88.78	270.79	8722.29	4355.05	945.48	-4253.04	4356.86	282.53	2.54	24.95R
	13102.00	90.48	271.59	8722.91	4447.70	947.43	-4347.01	4448.06	282.30	2.08	18.92R
	13196.00	91.86	272.01	8720.99	4540.50	950.38	-4440.94	4541.50	282.06	1.53	135.8L
	13290.00	90.07	270.27	8719.41	4633.19	952.25	-4534.90	4638.80	281.86	2.86	98.23R
	13383.00	90.55	271.36	8718.90	4724.69	953.58	-4627.89	4725.11	281.64	1.28	147.72R
	13477.00	88.36	272.75	8718.81	4817.57	956.95	-4721.82	4817.81	281.48	2.77	10.43R
Final Survey	13563.00	91.99	273.42	8719.55	4902.76	961.57	-4807.68	4902.90	281.31	4.30	HS
PTB	19820.00	91.99	273.42	8717.57	4959.24	964.87	-4864.54	4859.33	281.22	0.00	

Survey Type: Non Del 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)	EDU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	26.500	Act Sins	30.000	30.000	NAL_MWD_PLUS_0.5_DEG Depth Only	Original Borehole / Oxy Cedar Canyon 22 Federal 21H Actual Survey MWD Off to Update
	1	26.500	448.000	1/98.425	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Cedar Canyon 22 Federal 21H Actual
	1	448.000	13620.000	Act Sins	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Cedar Canyon 22 Federal 21H Actual