

JUL 24 2017

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Schlumberger

Reservoir Development
Schlumberger Drilling and Measurements
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127 USA
Phone: (405) 789-1515
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Well Reference:

22, 24S, 29E, Eddy NM
-32.20720 -103.96706

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 March 18, 2017 through March 31, 2017, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 684.00 feet to a depth of 16058.00 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 INC. for the Cedar Canyon "22-15" Federal Com 34H Well (Original Note) API No. 30-015-44055 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

Kalu Uga
By
Kalu Uga
FS

Subscribed and Sworn to before me this

3rd

day of

April

(month)

2017

(yr)

My Commission expires:

12-20-2020

Notary Public

(County State)

Jennifer Allemant
Blaine Co, Colorado

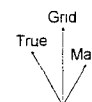
JENNIFER ALLEMAND
Notary Public
State of Colorado
(signature) Notary ID # 20164047962
My Commission Expires 12-20-2020

Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Cedar Canyon 22-15 Federal Com 34H	NM Eddy County (NAD 83)	Oxy Cedar Canyon 22-15 Federal Com 34H

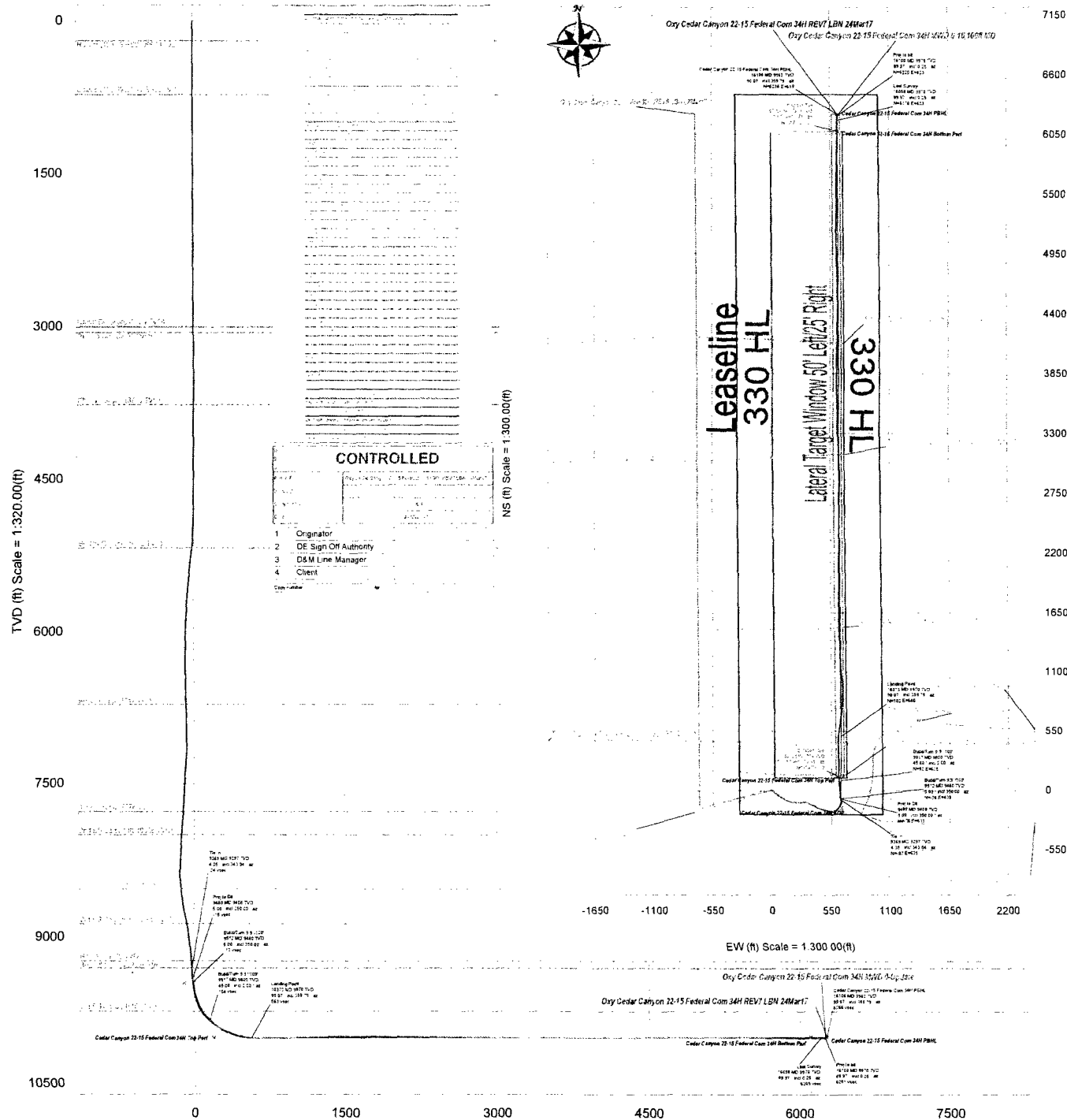
Gravity & Magnetic Parameters				Surface Location				NAD83 New Mexico State Plane Eastern Zone US Feet				Miscellaneous			
Model:	HOGM 2016	Dip:	80.05°	Date:	24-Mar-2017	Lat:	N 32 32 52	Northing:	438106.32705	Grid Cont:	0.1952°	Sheet:	22-15 Federal	TYD Ref:	RXB=26.5 (2967.1 ft above MSL)
MagDec:	7.148°	FS:	48148.203mT	Gravity FS:	898.47mg (9.80665 Based)	Long:	W 103 58 140	Easting:	654962.431815	Scale Fact:	0.99992379	Plan:	5003-15 Federal	Com:	22-15 Federal Com 34H REV'D LBN 24Mar17

Critical Points

Comments	Survey MD (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	VS (ft)	NS (ft)	EW (ft)	Latitude (deg)	Longitude (deg)	Easting (ftUS)	Northing (ftUS)	DLS (ft/100ft)	Tool Face (deg)
Tie In	9369.00	4.35	343.04	9297.39	-23.98	-87.14	635.12	N 32 12 25.034	W 103 57 54.013	665258.50	439219.19	0.29	350.00
Proj to Bit	9480.00	5.00	350.00	9408.02	-15.44	-78.35	633.05	N 32 12 25.122	W 103 57 54.036	665256.43	439227.98	0.78	350.00
Build/Turn 9 9°/100'	9512.00	5.00	350.00	9439.89	-12.76	-75.60	632.56	N 32 12 25.149	W 103 57 54.042	665255.94	439230.73	0.00	2.03
3rd BS Sand	9807.04	34.09	1.46	9715.00	84.20	21.85	632.43	N 32 12 26.113	W 103 57 54.039	665255.81	439328.17	9.90	2.00
Build/Turn 9 9°/100'	9917.25	45.00	2.00	9799.86	154.11	91.88	634.58	N 32 12 26.806	W 103 57 54.012	665257.96	439398.20	9.90	-3.12
Landing Point	10372.95	98.07	359.79	9969.54	562.89	502.17	639.64	N 32 12 30.856	W 103 57 53.936	665263.02	439808.45	9.90	0.00
Cedar Canyon 22-15 Federal Com 34H PBHL	16105.76	90.07	359.79	9962.35	6265.57	6234.94	618.81	N 32 13 27.593	W 103 57 53.960	665262.19	445540.77	0.00	



Grid North
Tot Corr (M->G 6.954°)
Mag Dec (7.149°)
Grid Conv (0.195°)



Vertical Section (ft) Azim = 5.668° Scale = 1:320.00(ft) Origin = 0N/-S, 0E/-W

Oxy Cedar Canyon 22-15 Federal Com 34H Gyro+ MWD 0-16,100ft MD Survey Geodetic Report (Def Survey)



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Report Date: April 07, 2017 - 09:42 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Cedar Canyon 22-15 Federal Com 34H / Oxy Cedar Canyon 22-15 Federal Com 34H
Well: Oxy Cedar Canyon 22-15 Federal Com 34H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Oxy Cedar Canyon 22-15 Federal Com 34H Gyro+ MWD 0-16,100ft MD
Survey Date: March 01, 2017
Tort / AHD / DDI / ERD Ratio: 279.643 / 7119.095 ft / 8.507 / 0.714
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 12' 25.918" E, W 103° 58' 1.40079"
Location Grid N/E Y/X: N 439306 320 HUS, E 654623 430 HUS
CRS Grid Convergence Angle: 0.1952°
Grid Scale Factor: 0.99992379
Version / Patch: 2 10 254 0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 5.668 (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB-26.5
TVD Reference Elevation: 2962.100 ft above MSL
Seabed / Ground Elevation: 2935.600 ft above MSL
Magnetic Declination: 7.156°
Total Gravity Field Strength: 998.465 mgal (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48155.059 nT
Magnetic Dip Angle: 60.051°
Declination Date: March 01, 2017
Magnetic Declination Model: HDGM 2016
North Reference: Grid North
Grid Convergence Used: 0.1952°
Total Corr Mag North->Grid North: 6.9603°
Local Coord Referenced To: Well Head

Comments	Tool Type	MD (ft)	Measured Incl (°)	Measured Azim (°)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (HUS)	Easting (HUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	439306.32	654623.43	N 32 12 25.92	W 103 58 1.40
	INCL_ONLY	26.50	0.00	0.00	0.00	0.00	26.50	0.00	0.00	0.00	0.00	439306.32	654623.43	N 32 12 25.92	W 103 58 1.40
	INCL_ONLY	502.00	0.07	225.01	0.00	0.00	502.00	0.00	0.00	0.00	0.00	439306.32	654623.43	N 32 12 25.92	W 103 58 1.40
		684.00	0.08	194.74	0.08	194.74	684.00	-0.13	-0.12	-0.03	0.04	439306.20	654623.40	N 32 12 25.92	W 103 58 1.40
		775.00	0.08	209.05	0.08	209.05	775.00	-0.25	-0.24	-0.08	0.02	439306.08	654623.35	N 32 12 25.92	W 103 58 1.40
		865.00	0.08	315.27	0.08	315.27	865.00	-0.26	-0.25	-0.15	0.14	439306.07	654623.28	N 32 12 25.92	W 103 58 1.40
		956.00	0.08	87.11	0.08	87.11	956.00	-0.21	-0.20	-0.14	0.16	439306.12	654623.29	N 32 12 25.92	W 103 58 1.40
		1047.00	0.08	156.23	0.08	156.23	1047.00	-0.26	-0.26	-0.05	0.10	439306.06	654623.38	N 32 12 25.92	W 103 58 1.40
		1142.00	0.11	356.08	0.11	356.08	1142.00	-0.23	-0.23	-0.03	0.20	439306.09	654623.40	N 32 12 25.92	W 103 58 1.40
		1236.00	0.11	294.37	0.11	294.37	1236.00	-0.11	-0.10	-0.11	0.12	439306.22	654623.32	N 32 12 25.92	W 103 58 1.40
		1331.00	0.16	335.95	0.16	335.95	1331.00	0.03	0.06	-0.25	0.11	439306.38	654623.18	N 32 12 25.92	W 103 58 1.40
		1425.00	0.13	86.99	0.13	86.99	1425.00	0.16	0.19	-0.20	0.25	439306.50	654623.23	N 32 12 25.92	W 103 58 1.40
		1520.00	0.13	242.03	0.13	242.03	1520.00	0.12	0.14	-0.19	0.27	439306.46	654623.24	N 32 12 25.92	W 103 58 1.40
		1614.00	0.18	137.51	0.18	137.51	1614.00	-0.04	-0.02	-0.18	0.26	439306.30	654623.25	N 32 12 25.92	W 103 58 1.40
		1709.00	0.52	121.97	0.52	121.97	1709.00	-0.33	-0.36	0.28	0.37	439306.96	654623.72	N 32 12 25.91	W 103 58 1.40
		1898.00	0.22	4.04	0.22	4.04	1897.99	-0.34	-0.45	1.04	0.35	439305.87	654624.47	N 32 12 25.91	W 103 58 1.39
		2087.00	0.53	8.92	0.53	8.92	2086.99	0.89	0.78	1.19	0.16	439307.10	654624.62	N 32 12 25.93	W 103 58 1.39
		2276.00	0.20	130.69	0.20	130.69	2275.99	1.58	1.43	1.57	0.35	439307.75	654625.00	N 32 12 25.93	W 103 58 1.38
		2371.00	0.30	112.88	0.30	112.88	2370.99	1.41	1.22	1.92	0.13	439307.54	654625.35	N 32 12 25.93	W 103 58 1.38
		2560.00	0.33	165.65	0.33	165.65	2559.98	0.75	0.50	2.51	0.15	439306.82	654625.94	N 32 12 25.92	W 103 58 1.37
		2749.00	0.25	151.01	0.25	151.01	2748.98	-0.10	-0.38	2.85	0.06	439305.94	654626.28	N 32 12 25.91	W 103 58 1.37
		2844.00	0.06	90.52	0.06	90.52	2843.98	-0.27	-0.57	3.00	0.24	439305.75	654626.43	N 32 12 25.91	W 103 58 1.37
		3032.00	0.90	365.38	0.90	365.38	3031.97	0.47	0.29	1.89	0.51	439306.81	654626.32	N 32 12 25.92	W 103 58 1.38
		3223.00	1.10	301.02	1.10	301.02	3222.94	2.00	2.10	-0.90	0.11	439308.42	654626.53	N 32 12 25.94	W 103 58 1.41
		3317.00	1.11	296.60	1.11	296.60	3316.93	2.71	2.97	-2.49	0.09	439309.29	654626.94	N 32 12 25.95	W 103 58 1.43
		3506.00	1.14	297.68	1.14	297.68	3505.96	4.07	4.67	-5.79	0.02	439310.95	654617.64	N 32 12 25.96	W 103 58 1.47
		3601.00	1.19	287.24	1.19	287.24	3600.87	4.62	5.40	-7.57	0.23	439311.72	654615.86	N 32 12 25.97	W 103 58 1.49
		3696.00	1.03	279.77	1.03	279.77	3695.85	4.88	5.84	-9.35	0.23	439312.15	654614.08	N 32 12 25.98	W 103 58 1.51
		3790.00	1.03	269.42	1.03	269.42	3789.84	5.14	6.26	-10.98	0.18	439312.58	654612.45	N 32 12 25.98	W 103 58 1.53
		3885.00	1.14	284.63	1.14	284.63	3884.82	5.49	6.78	-12.70	0.15	439313.10	654610.73	N 32 12 25.99	W 103 58 1.55
		3980.00	1.13	273.46	1.13	273.46	3979.80	5.61	7.08	-14.55	0.23	439313.40	654608.88	N 32 12 25.99	W 103 58 1.57
		4075.00	0.69	285.53	0.69	285.53	4074.79	5.67	7.29	-16.04	0.50	439313.61	654607.39	N 32 12 25.99	W 103 58 1.59
		4169.00	0.33	91.11	0.33	91.11	4168.79	5.79	7.43	-16.31	1.08	439313.75	654607.12	N 32 12 25.99	W 103 58 1.59
		4264.00	1.21	108.81	1.21	108.81	4263.78	5.58	7.10	-15.09	0.95	439313.42	654606.88	N 32 12 25.99	W 103 58 1.58
		4369.00	0.79	110.24	0.79	110.24	4368.75	4.98	6.27	-12.76	0.61	439312.59	654610.28	N 32 12 25.98	W 103 58 1.55
		4463.00	2.09	108.58	2.09	108.58	4462.69	4.23	5.21	-9.75	0.32	439311.53	654613.69	N 32 12 25.97	W 103 58 1.51
		4548.00	2.06	106.60	2.06	106.60	4547.63	3.51	4.17	-6.47	0.08	439310.49	654615.96	N 32 12 25.96	W 103 58 1.48
		4642.00	2.09	113.95	2.09	113.95	4641.57	2.66	3.00	-3.28	0.28	439309.32	654620.15	N 32 12 25.95	W 103 58 1.44
		4736.00	2.02	114.87	2.02	114.87	4735.51	1.57	1.80	-0.21	0.08	439307.92	654623.22	N 32 12 25.93	W 103 58 1.40
		4831.00	2.22	119.25	2.22	119.25	4830.44	0.29	0.00	2.91	0.27	439306.32	654626.34	N 32 12 25.92	W 103 58 1.37
		4925.00	2.15	121.52	2.15	121.52	4924.38	-1.21	-1.81	6.00	0.12	439304.51	654629.43	N 32 12 25.90	W 103 58 1.33
		5020.00	5.21	128.63	5.21	128.63	5019.17	-4.33	-5.44	10.89	3.25	439300.88	654634.32	N 32 12 25.86	W 103 58 1.27
		5115.00	7.55	131.84	7.55	131.84	5113.97	-10.37	-12.29	18.51	2.45	439294.03	654642.34	N 32 12 25.80	W 103 58 1.18
		5210.00	10.21	130.45	10.21	130.45	5207.43	-18.85	-21.92	29.97	2.81	439294.40	654650.40	N 32 12 25.70	W 103 58 1.05
		5304.00	12.30	125.93	12.30	125.93	5299.92	-28.65	-33.20	44.42	2.41	439293.12	654667.85	N 32 12 25.59	W 103 58 0.89
		5399.00	12.56	125.54	12.56	125.54	5298.39	-38.90	-45.15	61.02	0.29	439260.16	654684.45	N 32 12 25.86	W 103 58 0.93
		5493.00	10.46	123.42	10.46	123.42	5489.49	-47.96	-56.79	76.46	2.28	439250.54	654699.89	N 32 12 25.36	W 103 58 0.58
		5588.00	9.85	119.63	9.85	119.63	5578.01	-55.28	-64.55	90.72	0.95	439241.77	654714.15	N 32 12 25.28	W 103 58 0.35
		5682.00	11.49	117.52	11.49	117.52	5670.38	-62.03	-72.86	106.02	1.79	439233.47	654729.44	N 32 12 25.19	W 103 58 0.17
		5777.00	11.73	113.95	11.73	113.95	5763.44	-68.58	-81.15	123.23	0.80	439225.18	654746.65	N 32 12 25.11	W 103 57 59.97
		5871.00	11.55	109.83	11.55	109.83	5865.50	-73.88	-88.22	140.82	0.90	439218.11	654764.24	N 32 12 25.04	W 103 57 59.77
		5965.00	10.17	107.21	10.17	107.21	5947.82	-77.84	-93.87	157.60	1.56	439212.46	654781.02	N 32 12 24.98	W 103 57 59.57
		6060.00	9.84	103.80	9.84	103.80	6041.37	-80.67	-98.28	173.49	0.71	439208.04	654796.91	N 32 12 24.94	W 103 57 59.39
		6155.00	10.18	102.05	10.18	102.05	6134.93	-82.75	-101.97	189.59	0.48	439204.35	654813.00	N 32 12 24.90	W 103 57 59.20
		6249.00	9.84	97.32	9.84	97.32	6227.53	-83.90	-104.71	205.52	1.04	439201.62	654828.93	N 32 12 24.88	W 103 57 59.01
		6344.00	9.28	93.31	9.28	93.31	6321.74	-83.92	-106.17	221.06	0.79	439199.56	654846.47	N 32 12 24.86	W 103 57 58.83
		6439.00	10.09	91.08	10.09	91.08	6414.88	-82.83	-106.77	237.02	0.94	439199.56	654860.43	N 32 12 24.85	W 103 57 58.65
		6533.00	9.85	89.66	9.85	89.66	6507.49	-81.35	-106.87	253.13	0.53	439199.45	654876.54	N 32 12 24.85	W 103 57 58.46
		6628.00	9.19	88.72	9.19	88.72	6601.21	-79.60	-106.66	268.68	0.51	439199.67	654892.39	N 32 12 24.85	W 103 57 58.28
		6722.00	8.37	90.08	8.37	90.08	6694.11	-78.03	-106.50	283.03	0.30	439199.83	654906.43	N 32 12 24.85	W 103 57 58.11
		6817.00	8.97	86.77	8.97	86.77	6788.02	-76.21	-106.09	297.33	0.82	439200.24	654920.74	N 32 12 24.86	W 103 57 57.94
		6911.00	6.98	85.34	6.98	85.34	6881.11	-74.05	-105.21	310.34	2.13	439201.11	654933.75	N 32 12 24.87	W 103 57 57.79
		7006.00	5.08	82.61	5.08	82.61	6975.58	-72.06	-104.20	320.27	2.02	439202.12	654943.67	N 32 12 24.88	W 103 57 57.68
		7100.00	3.94	84.91	3.94	84.91	7069.29	-70.52							

Comments	Tool Type	MD (ft)	Measured Incl (°)	Measured Azim (°)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
		9874.00	44.75	353.53	44.75	353.53	9769.46	112.75	51.68	620.91	14.74	439358.00	655244.29	N 32 12 26.41	W 103 57 54.17
		9968.00	53.24	359.25	53.24	359.25	9831.10	182.68	122.37	616.68	10.13	439428.68	655240.06	N 32 12 27.11	W 103 57 54.22
		10062.00	62.02	0.72	62.02	0.72	9881.38	261.61	201.68	616.71	9.43	439507.99	655240.09	N 32 12 27.89	W 103 57 54.22
		10155.00	69.67	358.36	69.67	358.36	9919.42	345.90	286.47	615.97	8.54	439562.77	655238.36	N 32 12 28.73	W 103 57 54.22
		10249.00	77.14	358.33	77.14	358.33	9946.24	435.19	376.45	613.37	7.95	439682.74	655236.76	N 32 12 29.62	W 103 57 54.25
		10343.00	82.48	2.19	82.48	2.19	9962.87	527.25	458.91	613.82	6.97	439775.20	655237.20	N 32 12 30.54	W 103 57 54.24
		10437.00	88.97	8.45	88.97	8.45	9969.88	620.88	562.15	622.52	5.98	439868.43	655245.91	N 32 12 31.46	W 103 57 54.13
		10541.00	90.00	7.75	90.00	7.75	9970.82	724.79	655.11	637.18	1.20	439971.38	655260.56	N 32 12 32.48	W 103 57 53.96
		10635.00	90.10	6.06	90.10	6.06	9970.74	818.76	758.42	648.46	1.80	440064.68	655271.86	N 32 12 33.40	W 103 57 53.82
		10728.00	91.24	2.64	91.24	2.64	9989.65	911.71	851.13	655.53	3.88	440157.39	655278.91	N 32 12 34.32	W 103 57 53.74
		10822.00	91.20	358.96	91.20	358.96	9987.65	1005.34	945.09	656.84	3.91	440251.33	655280.22	N 32 12 35.25	W 103 57 53.72
		10906.00	90.83	354.60	90.83	354.60	9966.16	1088.30	1028.92	652.13	5.21	440335.16	655275.50	N 32 12 36.08	W 103 57 53.77
		11000.00	91.31	354.86	91.31	354.86	9964.40	1180.57	1122.51	643.49	0.58	440428.74	655266.87	N 32 12 37.00	W 103 57 53.87
		11092.00	92.20	358.04	92.20	358.04	9961.58	1271.33	1214.27	637.80	3.59	440520.50	655261.18	N 32 12 37.91	W 103 57 53.93
		11186.00	91.44	358.63	91.44	358.63	9958.60	1364.51	1308.18	635.07	1.02	440614.40	655258.45	N 32 12 38.84	W 103 57 53.96
		11279.00	90.58	357.16	90.58	357.16	9956.87	1456.64	1401.10	631.85	1.77	440707.31	655255.03	N 32 12 39.76	W 103 57 53.99
		11374.00	90.00	357.84	90.00	357.84	9956.30	1550.67	1496.01	627.51	1.02	440802.21	655250.89	N 32 12 40.70	W 103 57 54.04
		11469.00	90.24	359.81	90.24	359.81	9956.10	1644.99	1590.98	625.56	2.09	440897.18	655248.94	N 32 12 41.64	W 103 57 54.06
		11563.00	89.59	0.01	89.59	0.01	9956.24	1738.51	1684.98	625.41	0.72	440991.17	655248.80	N 32 12 42.57	W 103 57 54.05
		11659.00	89.76	1.44	89.76	1.44	9956.78	1834.15	1780.97	626.63	1.50	441087.15	655250.01	N 32 12 43.52	W 103 57 54.04
		11754.00	89.38	359.34	89.38	359.34	9957.50	1928.74	1875.96	627.28	2.25	441182.14	655250.66	N 32 12 44.46	W 103 57 54.03
		11849.00	89.52	358.98	89.52	358.98	9958.41	2023.13	1970.95	625.88	0.41	441277.11	655249.26	N 32 12 45.40	W 103 57 54.04
		11943.00	89.24	0.31	89.24	0.31	9959.43	2116.60	2064.94	625.30	1.45	441371.10	655248.68	N 32 12 46.33	W 103 57 54.04
		12039.00	89.59	1.91	89.59	1.91	9960.41	2212.29	2160.91	627.16	1.71	441467.06	655250.54	N 32 12 47.28	W 103 57 54.02
		12134.00	89.24	359.61	89.24	359.61	9961.38	2306.93	2255.89	628.42	2.45	441562.03	655251.80	N 32 12 48.22	W 103 57 54.00
		12229.00	89.28	2.21	89.28	2.21	9962.60	2401.58	2350.86	629.93	2.74	441657.00	655253.31	N 32 12 49.16	W 103 57 53.98
		12322.00	89.21	359.72	89.21	359.72	9963.83	2494.26	2443.83	631.50	2.68	441749.96	655254.88	N 32 12 50.08	W 103 57 53.95
		12416.00	90.03	0.15	90.03	0.15	9964.45	2587.78	2537.83	631.89	0.98	441843.95	655254.77	N 32 12 51.01	W 103 57 53.95
		12510.00	89.83	0.36	89.83	0.36	9964.57	2681.36	2631.83	631.81	0.31	441937.84	655255.19	N 32 12 51.94	W 103 57 53.94
		12603.00	89.83	2.29	89.83	2.29	9964.84	2774.09	2724.80	633.96	2.08	442030.91	655257.34	N 32 12 52.86	W 103 57 53.91
		12697.00	89.93	1.46	89.93	1.46	9965.04	2867.88	2818.75	637.03	0.89	442124.85	655260.41	N 32 12 53.79	W 103 57 53.87
		12790.00	89.52	359.93	89.52	359.93	9965.49	2960.53	2911.74	638.16	1.70	442217.83	655261.54	N 32 12 54.71	W 103 57 53.86
		12883.00	89.76	356.59	89.76	356.59	9966.07	3052.74	3004.68	635.34	3.60	442310.77	655258.72	N 32 12 55.63	W 103 57 53.89
		12977.00	90.00	358.52	90.00	358.52	9966.27	3145.79	3088.59	631.33	2.07	442404.67	655254.71	N 32 12 56.56	W 103 57 53.93
		13071.00	90.10	357.50	90.10	357.50	9966.19	3238.95	3192.53	628.06	1.09	442498.50	655251.44	N 32 12 57.49	W 103 57 53.96
		13165.00	89.72	356.71	89.72	356.71	9966.33	3331.90	3286.41	623.32	0.93	442592.47	655246.70	N 32 12 58.42	W 103 57 54.02
		13258.00	90.03	0.07	90.03	0.07	9966.54	3424.14	3379.36	620.70	3.63	442685.42	655244.08	N 32 12 59.34	W 103 57 54.04
		13445.00	90.28	357.71	90.28	357.71	9966.03	3509.82	3566.31	617.08	1.27	442787.35	655240.46	N 32 13 1.19	W 103 57 54.08
		13538.00	89.72	357.91	89.72	357.91	9966.03	3701.95	3659.24	613.53	0.54	442965.28	655236.91	N 32 13 2.11	W 103 57 54.11
		13632.00	90.31	357.52	90.31	357.52	9966.01	3795.04	3753.17	609.78	0.75	443059.19	655233.16	N 32 13 3.04	W 103 57 54.15
		13726.00	90.86	1.87	90.86	1.87	9965.05	3888.50	3847.14	609.28	4.66	443153.16	655232.66	N 32 13 3.97	W 103 57 54.16
		13820.00	89.76	1.53	89.76	1.53	9964.54	3982.28	3941.09	612.07	1.22	443247.11	655235.45	N 32 13 4.90	W 103 57 54.12
		13913.00	89.11	359.09	89.11	359.09	9965.45	4074.86	4034.08	612.57	2.72	443340.09	655235.95	N 32 13 5.82	W 103 57 54.11
		14008.00	90.62	3.35	90.62	3.35	9965.68	4169.55	4129.03	614.59	4.76	443435.03	655237.98	N 32 13 6.75	W 103 57 54.08
		14102.00	89.38	0.40	89.38	0.40	9965.68	4263.33	4222.97	617.67	3.40	443528.96	655241.05	N 32 13 7.68	W 103 57 54.04
		14195.00	90.58	0.79	90.58	0.79	9965.71	4355.96	4315.97	618.63	1.36	443621.95	655242.02	N 32 13 8.60	W 103 57 54.03
		14289.00	91.03	1.13	91.03	1.13	9964.39	4449.64	4409.94	620.21	0.60	443715.92	655243.59	N 32 13 9.53	W 103 57 54.01
		14380.00	90.41	359.33	90.41	359.33	9963.25	4540.22	4500.93	620.57	2.09	443806.90	655243.96	N 32 13 10.43	W 103 57 54.00
		14474.00	90.34	358.31	90.34	358.31	9962.63	4633.54	4594.91	618.64	1.09	443900.87	655242.02	N 32 13 11.36	W 103 57 54.02
		14567.00	89.04	358.93	89.04	358.93	9963.13	4725.83	4687.88	616.40	1.55	443993.83	655239.78	N 32 13 12.28	W 103 57 54.04
		14753.00	89.90	358.47	89.90	358.47	9964.85	4910.45	4873.82	612.18	0.52	444179.76	655235.56	N 32 13 14.12	W 103 57 54.08
		14846.00	90.93	358.87	90.93	358.87	9964.18	5002.75	4966.79	610.02	1.19	444272.72	655233.40	N 32 13 15.04	W 103 57 54.10
		14940.00	89.86	358.88	89.86	358.88	9963.53	5096.05	5060.77	608.17	1.14	444366.69	655231.58	N 32 13 15.97	W 103 57 54.12
		15127.00	90.65	1.09	90.65	1.09	9962.70	5282.16	5247.75	608.13	1.26	444553.69	655231.51	N 32 13 17.82	W 103 57 54.11
		15222.00	89.04	1.24	89.04	1.24	9962.96	5376.86	5342.73	610.06	1.70	444648.63	655233.44	N 32 13 18.76	W 103 57 54.09
		15315.00	89.42	359.54	89.42	359.54	9964.21	5469.45	5435.72	610.89	1.87	444741.61	655234.07	N 32 13 19.68	W 103 57 54.08
		15409.00	89.45	360.00	89.45	360.00	9965.13	5562.95	5529.71	610.31	0.49	444835.60	655233.70	N 32 13 20.61	W 103 57 54.08
		15502.00	88.90	0.21	88.90	0.21	9966.47	5655.50	5622.70	610.48	0.63	444928.58	655233.87	N 32 13 21.53	W 103 57 54.07
		15596.00	89.24	1.80	89.24	1.80	9968.00	5749.18	5716.67	612.13	1.73	445022.54	655235.51	N 32 13 22.46	W 103 57 54.05
		15690.00	89.11	1.27	89.11	1.27	9969.35	5842.92	5810.63	614.65	0.58	445116.49	655238.03	N 32 13 23.39	W 103 57 54.02
		15784.00	89.86	1.30	89.86	1.30	9970.20	5936.64	5904.80	616.76	0.90	445210.46	655240.14	N 32 13 24.32	W 103 57 53.99
		15877.00	88.83	1.15	88.83	1.15	9970.45	6029.96	5997.58	618.75	0.16	445303.43	655242.13	N 32 13 25.24	W 103 57 53.96
		15971.00	90.24	1.83	90.24	1.83	9970.39	6123.11	6091.54	621.19	0.84	445397.39	655244.57	N 32 13 26.17	W 103 57 53.93
		16058.00	89.97	0.25	89.97	0.25	9970.23	6209.83	6178.53	622.77	1.84	445484.36	655246.15	N 32 13 27.03	W 103 57 53.91
		16100.00	89.97	0.25	89.97	0.25	9970.25	6251.64	6220.53	622.95	0.00	445526.36	655246.33	N 32 13 27.45	W 103 57 53.90

Survey Type: Def Survey

Survey Error Model: ISCSWA Rev 0 *** 3-D 95 000% Confidence 2.7955 sigma
Survey Program:

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OXY USA Inc.
Cedar Canyon 22-15 Federal Com 34H
API No. 30-015-44055

14-3/4" hole @ 451'
10-3/4" csg @ 441'
w/ 625sx-TOC-Surf Circ.

9-7/8" hole @ 9490'
7-5/8" csg @ 9481'
w/ 1350sx-TOC-Surf Circ.

6-3/4" hole @ 16100'
4-1/2" liner @ 9355-16091'
w/ 660sx-TOC- 9355' Circ.

Perfs @ 9980-15931' TD- 16100'M 9970'V