

Oil Field 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

NM OIL CONSERVATION
ARTESIA DISTRICT

30-015-45077

NOV 02 2018

September 27, 2018

Oxy USA INC.

RECEIVED

17, 24S, 31E, Eddy NM
32.22240 103.79570

Re:

CLIENT: Oxy USA INC.
WELL: PATTON MDPI 17 FEDERAL 174H
FIELD: Purple Sage Wolfcamp

RIG: HP657
COUNTY: Eddy
API NO: 3001545077
JOB NO: 18MLD3877

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>
Emmanuel Sanchez FS	PATTON MDPI 17 FEDERAL 174H Original Hole	930.00 Ft to 16896.00 Ft	August 10, 2018 to September 10, 2018	TelePacer SlimPulse

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

Cody Nelms
Field Service Manager

Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-10
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:
17, 24S, 31E, Eddy NM
32.22240 103.79570

I, Emmanuel Sanchez certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of August 10, 2018 through September 10, 2018, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 930.00 feet to a depth of 16896.00 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 PATTON MDPI 17 FEDERAL 174H Well (Original Hole) API No. 3001545077 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
Emmanuel Sanchez
ES Emmanuel S.

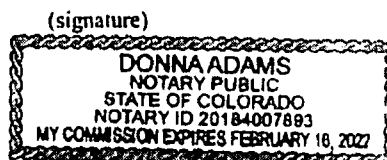
Subscribed and Sworn to before me this 27th day of September (month) 2018 (yr)

My Commission expires:

2-16-2022

D. Adams
Notary Public

Adams County Colorado
(County State)



Oxy Patton MDP1 17 Federal 174H Gyro + MWD 0-16939' MD Survey

Geodetic Report

(Def Survey)



Report Date:	September 10, 2018 - 01:57 PM
Client:	OXY
Field:	NM Eddy County (NAD 83)
Structure / Shot:	Patton MDP1 17 Federal 174H / Patton MDP1 17 Federal 174H
Well:	Patton MDP1 17 Federal 174H
Borehole:	Unknown / Unknown
UWI / API#:	
Survey Name:	Oxy Patton MDP1 17 Federal 174H Gyro + MWD 0-16939' MD
Survey Date:	August 28, 2018
Tot / AH / DD / ERD Ratio:	233.002 / 6580.628 N / 6.315 / 0.553
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long:	N 32° 13' 20.91160", W 103° 47' 44.60116"
CRS Grid Convergence Angle:	N 445068 331 NUS, E 750587 830 NUS
Grid Scale Factor:	0.99994075
Version / Patch:	2.10 740 0
Local Coord Reference To:	Weld Head
North:	
Local Coord Reference Used:	Total Corr Mag North-Grid
Grid Convergence Used:	0.9729 °
Grid North:	0.2887 °
MDCM 2018:	
August 28, 2018:	
59.950 °:	
47591.852 nT:	
GARMA:	
998.4271 mgn (0.8665 Base):	
Magnetic Declination:	6.650 °
Seabed / Ground Elevation:	3546.700 N above MSL
TVD Reference Elevation:	3573.200 N above MSL
Survey / DLS Computation:	Minimum Curvature / Lullumsh
Vertical Section Azimuth:	180.560 ° (Grid North)
Vertical Section Origin:	0.000 N, 0.000 N
TVD Reference Datum:	RKM-26.5'
MD	0.00
Incl	0.00
Asm Grd	0.00
TVD	0.00
V93C	0.00
N5	0.00
EV	0.00
DLS	N/A
North	0.00
East	0.00
South	0.00
West	0.00
Length	0.00
Width	0.00
Area	0.00
Volume	0.00
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Comments	MD (m)	Incl (°)	Azim Grid (°)	TVD (m)	VSEC (m)	NS (m)	EW (m)	DLS (°/100ft)	Northing (m)	Easting (m)	Latitude (N/S ° ° ' '')	Longitude (E/W ° ° ' '')
	9082.00	8.02	318.47	8997.19	-587.15	659.52	-443.08	2.15	445745.82	707144.77	N 32 13 27.57 W 103 47 48.72	
	9177.00	8.83	318.33	9091.03	-576.30	670.64	-452.78	1.91	445756.93	707135.09	N 32 13 27.57 W 103 47 48.83	
	9271.00	9.71	321.57	9183.67	-586.53	682.93	-462.92	0.42	445769.22	707124.94	N 32 13 27.69 W 103 47 48.95	
	9366.00	11.14	323.88	9277.10	-598.08	696.62	-473.31	1.57	445782.91	707114.55	N 32 13 27.83 W 103 47 50.07	
	9454.00	12.59	328.49	9461.08	-625.27	728.38	-495.33	0.82	445814.67	707092.53	N 32 13 28.14 W 103 47 50.32	
	9743.00	10.08	322.11	9646.38	-651.04	756.81	-516.88	1.40	445844.90	707071.00	N 32 13 28.44 W 103 47 50.57	
	9837.00	10.25	311.39	9738.91	-660.79	770.64	-528.19	2.02	445856.92	707059.87	N 32 13 28.56 W 103 47 50.70	
	9932.00	9.12	311.18	9832.58	-668.95	781.18	-540.20	1.19	445867.46	707047.66	N 32 13 28.87 W 103 47 50.84	
	10028.00	10.09	305.35	9925.24	-678.19	790.86	-552.52	1.46	445877.13	707035.34	N 32 13 29.18 W 103 47 50.99	
	10120.00	12.21	301.30	10017.48	-683.17	800.78	-567.74	2.40	445887.06	707020.13	N 32 13 29.68 W 103 47 51.16	
	10215.00	14.45	297.23	10109.90	-690.13	811.42	-586.88	2.58	445897.70	707001.00	N 32 13 29.97 W 103 47 51.39	
	10309.00	16.11	296.78	10200.57	-697.13	822.66	-608.94	1.77	445908.94	706978.93	N 32 13 29.08 W 103 47 51.64	
	10403.00	16.55	293.43	10290.78	-703.75	833.88	-632.87	1.10	445920.14	706955.00	N 32 13 29.18 W 103 47 51.92	
	10498.00	14.23	290.21	10382.37	-708.72	843.27	-658.24	2.60	445929.55	706931.83	N 32 13 29.29 W 103 47 52.19	
	10592.00	13.18	285.63	10473.70	-711.81	850.15	-677.41	1.91	445936.43	706910.47	N 32 13 29.36 W 103 47 52.44	
	10687.00	11.88	280.55	10568.42	-712.56	854.87	-697.53	1.72	445941.15	706890.34	N 32 13 29.41 W 103 47 52.67	
	10781.00	10.13	274.70	10658.67	-711.72	857.34	-715.38	2.30	445943.62	706872.51	N 32 13 29.43 W 103 47 52.88	
	10870.00	9.00	245.82	10645.15	-701.59	852.84	-745.43	2.58	445936.92	706842.44	N 32 13 29.39 W 103 47 53.23	
	11064.00	9.60	230.28	10937.93	-691.37	844.62	-758.17	2.74	445930.90	706820.71	N 32 13 29.31 W 103 47 53.38	
	11158.00	9.55	219.78	11030.82	-678.53	833.82	-769.19	1.85	445919.80	706818.69	N 32 13 29.20 W 103 47 53.51	
	11222.00	8.33	215.25	11093.85	-669.69	825.75	-775.26	2.20	445912.03	706812.61	N 32 13 29.12 W 103 47 53.58	
	11383.00	7.78	207.19	11253.26	-648.85	808.53	-788.97	0.78	445892.82	706800.90	N 32 13 28.93 W 103 47 53.72	
	11478.00	25.43	198.71	11343.96	-621.99	781.07	-785.85	18.77	445867.38	706792.03	N 32 13 28.68 W 103 47 53.82	
	11572.00	33.08	198.22	11425.91	-576.35	737.06	-808.83	8.12	445823.35	706778.05	N 32 13 28.24 W 103 47 53.97	
	11667.00	41.09	188.31	11501.89	-519.24	681.16	-820.81	9.82	445787.45	706707.27	N 32 13 27.69 W 103 47 54.11	
Wolcamp Intersection	11748.00	48.30	182.15	11580.29	-483.61	625.50	-825.56	8.30	445711.80	706782.32	N 32 13 27.14 W 103 47 54.17	
	11782.00	47.23	181.20	11569.85	-453.54	615.31	-825.86	8.30	445701.60	706782.02	N 32 13 27.04 W 103 47 54.18	
	11858.00	52.87	179.24	11830.19	-382.89	543.28	-826.08	8.21	445629.58	706781.80	N 32 13 26.33 W 103 47 54.19	
	11951.00	58.24	180.22	11883.91	-305.77	464.87	-825.74	5.72	445551.27	706782.14	N 32 13 25.57 W 103 47 54.19	
Top Perf Cross	11996.00	61.81	179.29	11706.35	-267.47	425.98	-825.55	8.37	445512.28	706782.33	N 32 13 25.17 W 103 47 54.19	
	12043.00	65.82	178.29	11727.89	-224.40	381.99	-824.60	6.37	445488.29	706783.28	N 32 13 24.73 W 103 47 54.18	
	12140.00	74.37	179.65	11780.13	-136.94	292.73	-822.02	9.00	445379.05	706784.86	N 32 13 23.85 W 103 47 54.16	
	12233.00	83.43	182.03	11778.40	-45.16	199.82	-824.41	9.85	445285.94	706783.47	N 32 13 22.93 W 103 47 54.19	
	12329.00	86.67	180.11	11788.51	47.19	108.01	-826.16	4.00	445192.33	706781.72	N 32 13 22.00 W 103 47 54.21	
	12388.00	87.77	179.73	11789.29	103.15	49.08	-826.08	2.04	445135.40	706781.60	N 32 13 21.44 W 103 47 54.21	
	12427.00	87.49	178.82	11790.97	143.32	8.11	-825.58	2.32	445094.45	706782.32	N 32 13 21.03 W 103 47 54.21	
	12521.00	89.22	178.56	11795.31	235.21	-85.76	-823.41	0.40	445000.58	706784.47	N 32 13 20.10 W 103 47 54.19	
	12711.00	87.68	184.18	11800.49	422.82	-275.54	-827.97	3.23	444810.80	706759.91	N 32 13 18.23 W 103 47 54.25	
	12806.00	89.32	181.89	11801.33	518.79	-370.40	-833.01	2.45	444715.95	706754.87	N 32 13 17.29 W 103 47 54.32	
	12995.00	88.68	180.84	11804.60	703.33	-559.31	-837.51	0.68	444527.05	706750.37	N 32 13 15.42 W 103 47 54.38	
	13090.00	88.49	180.31	11807.03	798.88	-654.28	-838.47	0.59	444432.09	706749.42	N 32 13 14.48 W 103 47 54.40	
	13184.00	89.08	180.19	11806.02	889.32	-748.28	-836.87	0.64	444338.12	706749.01	N 32 13 13.55 W 103 47 54.41	
	13279.00	88.58	180.27	11810.96	982.76	-843.24	-839.24	0.56	444243.15	706748.64	N 32 13 12.61 W 103 47 54.42	
	13468.00	88.80	180.15	11815.68	1168.83	-1032.18	-839.93	0.07	444054.22	706747.95	N 32 13 10.74 W 103 47 54.44	
	13562.00	88.77	180.74	11817.82	1261.14	-1126.15	-840.68	0.85	443960.25	706747.22	N 32 13 9.81 W 103 47 54.45	
	13752.00	89.18	179.51	11821.22	1447.98	-1316.11	-841.08	0.68	443770.30	706746.60	N 32 13 7.93 W 103 47 54.47	
	13846.00	88.29	178.33	11823.29	1540.00	-1410.07	-839.31	1.57	443678.35	706745.58	N 32 13 7.00 W 103 47 54.45	
	13941.00	89.66	177.59	11824.99	1632.70	-1504.99	-835.92	1.64	443581.43	706751.96	N 32 13 6.06 W 103 47 54.42	
	14036.00	90.93	177.17	11824.50	1725.19	-1599.89	-831.58	1.41	443486.54	706756.30	N 32 13 5.12 W 103 47 54.37	
	14130.00	91.45	175.69	11822.55	1816.33	-1693.88	-825.73	1.87	443392.75	706782.15	N 32 13 4.19 W 103 47 54.31	
	14225.00	90.52	172.59	11820.92	1907.43	-1788.16	-816.03	3.41	443298.28	706771.85	N 32 13 3.26 W 103 47 54.20	
	14319.00	90.25	171.60	11820.28	1996.60	-1881.27	-803.18	1.03	443205.17	706784.72	N 32 13 2.34 W 103 47 54.06	
	14414.00	88.38	171.28	11821.44	2086.36	-1975.21	-789.07	2.03	443111.24	706798.81	N 32 13 1.41 W 103 47 53.90	
	14509.00	85.12	172.58	11826.84	2178.23	-2069.10	-775.75	3.67	443017.38	706812.13	N 32 13 0.48 W 103 47 53.75	
Exit Target Box	14547.00	84.78	173.42	11830.35	2212.30	-2105.66	-771.14	3.13	442979.80	706816.74	N 32 13 0.10 W 103 47 53.70	
	14603.00	83.04	174.87	11836.53	2285.66	-2162.01	-765.37	3.13	442924.45	706822.51	N 32 12 59.56 W 103 47 53.64	
	14698.00	83.39	177.45	11847.78	2358.98	-2256.11	-758.89	2.93	442830.38	706828.99	N 32 12 58.82 W 103 47 53.57	
	14792.00	83.98	181.02	11858.10	2448.58	-2349.52	-757.64	3.83	442738.68	706830.23	N 32 12 57.79 W 103 47 53.58	
	14886.00	86.91	182.77	11865.57	2541.20	-2443.18	-760.74	3.83	442643.32	706827.13	N 32 12 56.77 W 103 47 53.60	
	14980.00	89.42	183.97	11868.58	2634.40	-2538.94	-768.27	2.96	442549.55	706821.81	N 32 12 55.85 W 103 47 53.67	
Enter Target Box	15008.00	89.43	184.03	11869.88	2682.22	-2584.87	-780.22	0.23	442521.82	706819.86	N 32 12 55.57 W 103 47 53.69	
	15075.00	89.48	184.18	11869.51	2728.79	-2631.69	-773.02	0.23	442454.80	706814.88	N 32 12 54.91 W 103 47 53.75	
	15169.00	90.48	183.28	11869.55	2822.12	-2725.49	-776.11	1.47	442361.01	706809.76	N 32 12 53.98 W 103 47 53.83	
	15264.00	89.61	182.09	11869.96	2916.21	-2820.38	-783.55	1.99	442266.12	706804.33	N 32 12 53.04 W 103 47 53.89	
	15359.00	88.77	181.24	11871.80	3010.05	-2915.32	-788.31	0.93	442171.19	706801.57	N 32 12 52.10 W 103 47 53.92	
	15453.00	86.49	181.07	11874.05	3102.76	-3009.28	-788.20	0.35	442077.24	706799.68	N 32 12 51.17 W 103 47 53.95	
	15641.00	86.77	180.50	11878.54	3287.98	-3187.21	-790.78	0.34	441889.32	706797.10	N 32 12 49.31 W 103 47 53.98	
	15738.00	87.36	180.11	11881.75	3381.41	-3292.15	-791.28	1.54	441794.38	706796.60	N 32 12 48.37 W 103 47 54.01	
	15831.00	88.70	179.78	11885.02	3474.72	-3387.09	-791.17	1.46	441699.45	706796.70	N 32 12 47.44 W 103 47 54.00	
	15925.00	87.84	180.28	11887.86	3567.09	-3481.05	-791.21	1.07	441605.50	706796.87	N 32 12 46.51 W 103 47 54.01	
	16020.00	88.70	180.18	11890.72	3660.31	-3576.00	-791.60	0.91	441510.55	706796.28	N 32 12 45.57 W 103 47 54.02	
	16209.00	91.73	180.81	11890.01	3848.58	-3784.97	-793.25	1.84	441321.59	706794.83	N 32 12 43.70 W 103 47 54.05	
	16304.00	89.42	181.10	11889.08	3940.24	-3859.94	-794.83	2.45	441226.82	706793.03	N 32 12 42.76 W 103 47 54.08	
	16398.00	92.28	180.72	11887.67	4032.88	-3953.91	-796.32	3.07	441132.66	706791.56	N 32 12 41.83 W 103 47 54.10	
	16493.00	88.56	180.07	11886.97	4120.37	-4048.88	-796.98	3.98	441037.69	706789.80	N 32 12 40.89 W 103 47 54.11	
	16588.00	88.84	181.70	11885.13	4220.00	-4143.85	-798.49	1.				



Structure:

Oxy Patton MDP1 17 Federal 174H

Miscellaneous

Elev: Patton MDP1 17 Tvd Ref RIG=25 8 (1573 271 above MSL)
 Federal 174H
 Plan: Ory Patton MDP1 17 Federal 174H Ory = BMD 6-16225' BMD

Vertical Section (R) Azim = 190.56° Scale = 1:2200.00(R) Origin = 0N/ S, 0E/W