

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

April 17, 2019

RECEIVED

OXY USA INC.
5 Greenway Plaza, Suite 110
Houston TX 77046

SEP 06 2019

DISTRICT/ARTESIAO.C.D.

Re:

S33-T23S-R31E
N 32.267426 W 103.775917

CLIENT: OXY USA INC.
WELL: Iridium MDP1 28-21 Federal Com 6H
FIELD: Ingle Wells Bone Spring

RIG: H&P 639
COUNTY: Eddy
API NO: 30-015-45247
JOB NO: 19MLD4330

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>
Dmitriy Konkov FS	Iridium MDP1 28-21 Federal Com 6H Original Hole	591.00 Ft to 20626.00 Ft ✓	March 8, 2019 to April 15, 2019	TelePacer/SlimPulse Third Party Corrected

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

Andrew Salomon
Field Service Manager

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	20005.00	89.53	1.66	9999.02	10152.58	10151.95	115.44	0.38	471620.66	713742.73	N 32 17 43.17	W 103 46 31.35
	20100.00	89.84	1.10	9999.55	10247.58	10246.92	117.72	0.67	471715.62	713745.02	N 32 17 44.11	W 103 46 31.31
	20194.00	89.70	0.93	9999.92	10341.58	10340.90	119.39	0.23	471809.60	713746.68	N 32 17 45.04	W 103 46 31.29
	20289.00	89.70	1.54	10000.42	10436.58	10435.88	121.44	0.64	471904.57	713748.73	N 32 17 45.98	W 103 46 31.26
	20477.00	89.73	1.18	10001.36	10624.56	10623.82	125.90	0.19	472092.51	713753.19	N 32 17 47.84	W 103 46 31.20
	20572.00	89.15	1.01	10002.29	10719.56	10718.80	127.71	0.64	472187.48	713755.01	N 32 17 48.78	W 103 46 31.17
100' FNL Crossing	20594.03	89.44	1.02	10002.56	10741.58	10740.82	128.10	1.33	472209.50	713755.40	N 32 17 49.00	W 103 46 31.16
Final Survey	20626.00 ✓	89.87	1.03	10002.75 ✓	10773.55	10772.79	128.67	1.33	472241.46	713755.97	N 32 17 49.32	W 103 46 31.15
PTB	20674.00 ✓	89.87	1.03	10002.86 ✓	10821.55	10820.78	129.54	0.00	472289.45	713756.83	N 32 17 49.79	W 103 46 31.14 ✓

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	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Iridium MDP1 28-21 Fed Com 6H Gyros+MWD 0' - 20674'
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Iridium MDP1 28-21 Fed Com 6H Gyros+MWD 0' - 20674'
	1	26.500	521.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Iridium MDP1 28-21 Fed Com 6H
	1	521.500	9387.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Iridium MDP1 28-21 Fed Com 6H
	1	9387.000	9576.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Iridium MDP1 28-21 Fed Com 6H
	1	9576.000	20674.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Iridium MDP1 28-21 Fed Com 6H

...Original Borehole/Oxy Iridium MDP1 28-21 Fed Com 6H Gyros+MWD 0' - 20674'