

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

30-015-44193

August 9, 2018

NM OIL CONSERVATION
ARTESIA DISTRICT

OXY USA WTP LP
5 Greenway Plaza, Suite 110
Houston, TX 77046

JAN 11 2019

RECEIVED

Re:

8, 19S, 29E, Eddy NM
32.68104 -104.09061

CLIENT: OXY USA WTP LP
WELL: Turkey Track 9-10 State 31H
FIELD: Turkey Track - Bone Spring

RIG: H&P 639
COUNTY: Eddy
API NO: 30-015-44193
JOB NO: 18MLD1233

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>
Perry Hawks FE	Turkey Track 9-10 State 31H Original Hole	411.00 Ft to 19319.00 Ft	July 4, 2018 to July 22, 2018	TelePacer

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

Blake Jones
Field Service Manager

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Schlumberger Drilling and Measurements
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Well Reference:
8, 19S, 29E, Eddy NM
32.68104 -104.09061

I, Perry Hawks certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of July 04, 2018 through July 22, 2018, conduct or supervise the taking of the TelePacer surveys from a depth of 411.00 feet to a depth of 19319.00 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 WTP LP for the Turkey Track 9-10 State 31H Well (Original Hole) API No. 30-015-44193 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
Perry Hawks
FE

Subscribed and Sworn to before me this 9th day of August (month) 2018 (yr)

My Commission expires:

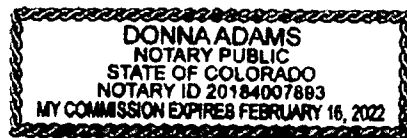
2-16-2022

Donna Adams

(signature)

Notary Public

Adams County Colorado
(County State)



...Oxy Turkey Track 8-10 State 31MO Original Borehole Oxy Turkey Track 9-10 State 31H Gyro-MWD 0-19352

[illegible]

Schritt 3:

Report (Def Survey)

30-015-44193



...Only Turkey Track 9-10 State 31H Original Borehole/Oxy Turkey Track 9-10 State 31H Gyro+MWD 0-18352

[illegible]

Comments	MD (ft)	Incl (°)	Asm Grid (°)	TVD (ft)	VBEC (ft)	NS (ft)	EW (ft)	CLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)
	18818.00	89.94	88.38	8888.87	10690.18	-392.74	10682.88	0.09	611188.39	626689.41	N 32 40 47.50 W 104 3 21.24	
	18913.00	90.06	88.31	8888.87	10784.99	-390.00	10777.94	0.15	611189.14	626789.37	N 32 40 47.53 W 104 3 20.12	
	19007.00	90.06	88.29	8888.77	10878.78	-387.21	10871.80	0.02	611191.83	626887.32	N 32 40 47.85 W 104 3 19.02	
	19102.00	90.00	88.08	8888.72	10973.55	-384.18	10966.85	0.25	611194.95	626982.26	N 32 40 47.88 W 104 3 17.91	
	19196.00	90.00	88.10	8888.72	11067.22	-381.08	11060.80	0.11	611198.05	627078.20	N 32 40 47.71 W 104 3 16.81	
	19291.00	90.00	88.14	8888.72	11162.10	-378.02	11155.75	0.02	611201.12	627171.14	N 32 40 47.79 W 104 3 15.70	
Final MWD Surveys	19319.00	89.89	88.11	8888.75	11190.03	-377.10	11183.73	0.41	611202.03	627189.13	N 32 40 47.74 W 104 3 15.38	
Proj. to St	19352.00	89.89	88.11	8888.81	11222.95	-378.01	11218.72	0.00	611203.12	627232.10	N 32 40 47.75 W 104 3 14.99	

Survey Type: Def Survey

Survey Error Model: ISCWBA Rev 0 --- 3-D 95.000% Confidence 2.7953 sigma
Survey Program:

Description	Port	MD From (ft)	MD To (ft)	ECU Freq (ft)	Hole Size Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	28.600	1/98.425	30.000	NAL_MSG+MSHOT-Depth Only	Original Borehole / Oxy Turkey Track 9-10 State 31H Gyro+MWD 0-18352'
	1	28.600	28.600	Act Strs	30.000	NAL_MSG+MSHOT-Depth Only	Original Borehole / Oxy Turkey Track 9-10 State 31H Gyro+MWD 0-18352'
	1	28.600	273.850	Act Strs	30.000	NAL_MSG+MSHOT	Original Borehole / Oxy Turkey Track 9-10 State 31H Gyro+MWD
	1	273.850	19352.000	Act Strs	30.000	NAL_MWD_PLUS_OE_DEG	Original Borehole / Oxy Turkey Track 9-10 State 31H Gyro+MWD

...Oxy Turkey Track 9-10 State 31H Original Borehole/Oxy Turkey Track 9-10 State 31H Gyro+MWD 0-18352'



Oxy Turkey Track 9-10 Elite 31H

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