

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

30-015-44334

September 19, 2018

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

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 22 2019

RECEIVED

Re:

4, 19S, 29E, Eddy NM
32.69400 104.08640

CLIENT: OXY USA WTP LP
WELL: Turkey Track 4-3 State 31H
FIELD: Turkey Track Bone Spring

RIG: H&P 639
COUNTY: Eddy
API NO: 30-015-44334
JOB NO: 18MLD3895

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 4-3 State 31H Original Hole	508.00 Ft to 18977.00 Ft	July 29, 2018 to August 25, 2018	TelePacer/SlimPuls- Third Party Correcte

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:
4, 19S, 29E, Eddy NM
32.69400 104.08640

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 29, 2018 through August 25, 2018, conduct or supervise the taking of the TelePacer/SlimPulse & Third Party Corrected surveys from a depth of 508.00 feet to a depth of 18977.00 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 4-3 State 31H Well (Original Hole) API No. 30-015-44334 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

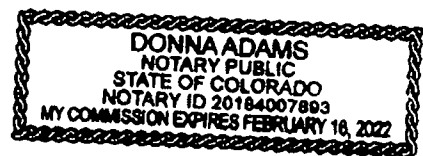
Subscribed and Sworn to before me this 19~~th~~ day of September (month) 2018 (yr)

My Commission expires:

2-16-2022

D. Adams (signature)
Notary Public

Adams County Colorado
(County State)



Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Morb'g (ft/ft)	Easting (MUS)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)
		1	28.500	28.500	Act Strs	30.000	30.000	NAL_NSQ+MSHOT-Depth Only		Original Borehole / Oxy Turkey Track 4-3 State 31H Gyro + MWD		
		1	28.500	19017.000	Act Strs	30.000	30.000	NAL_NSQ+MSHOT		0-19017 MD Original Borehole / Oxy Turkey Track 4-3 State 31H Gyro + MWD		

...Original Borehole/Oxy Turkey Track 4-3 State 31H Gyro + MWD 0-19017' MD



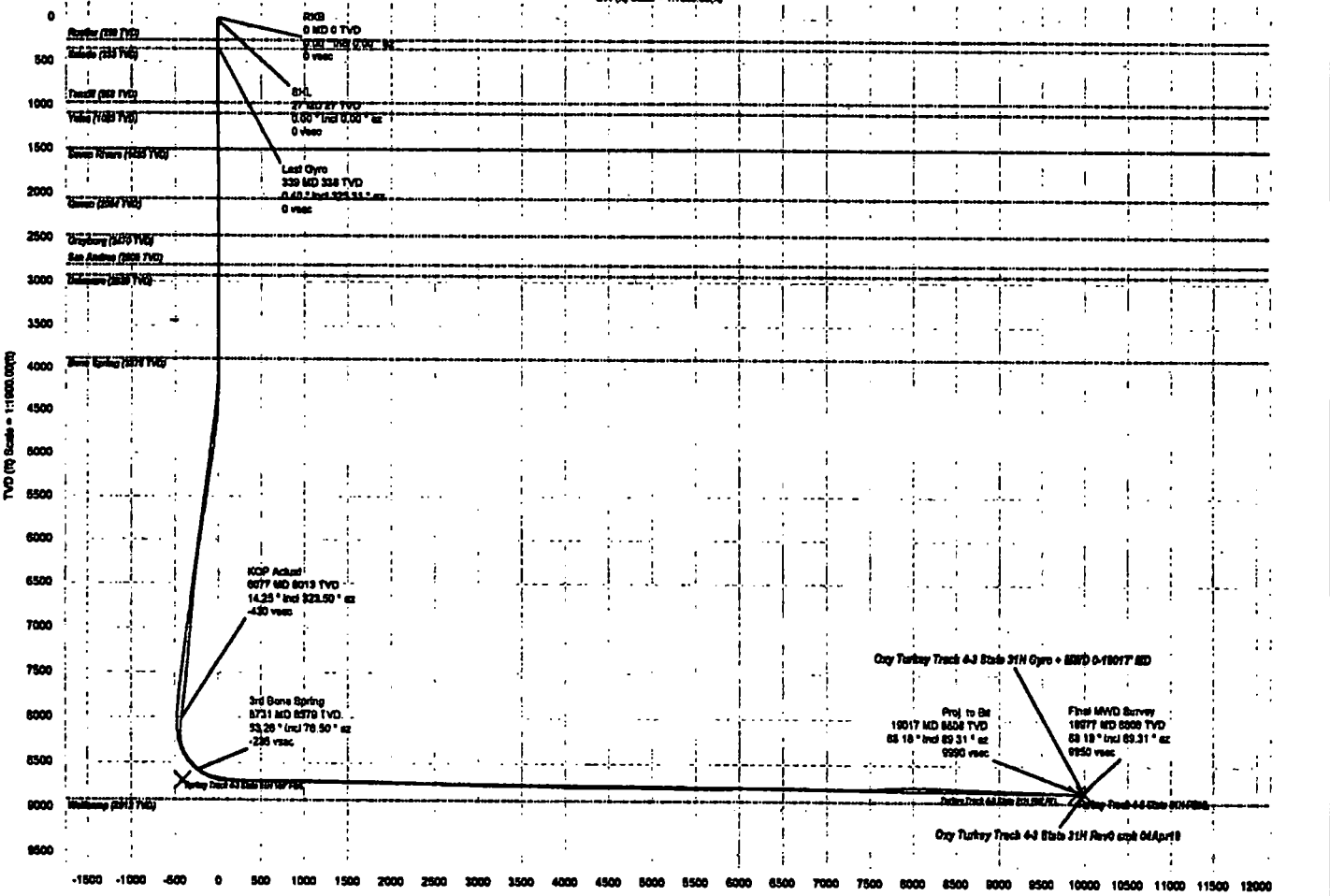
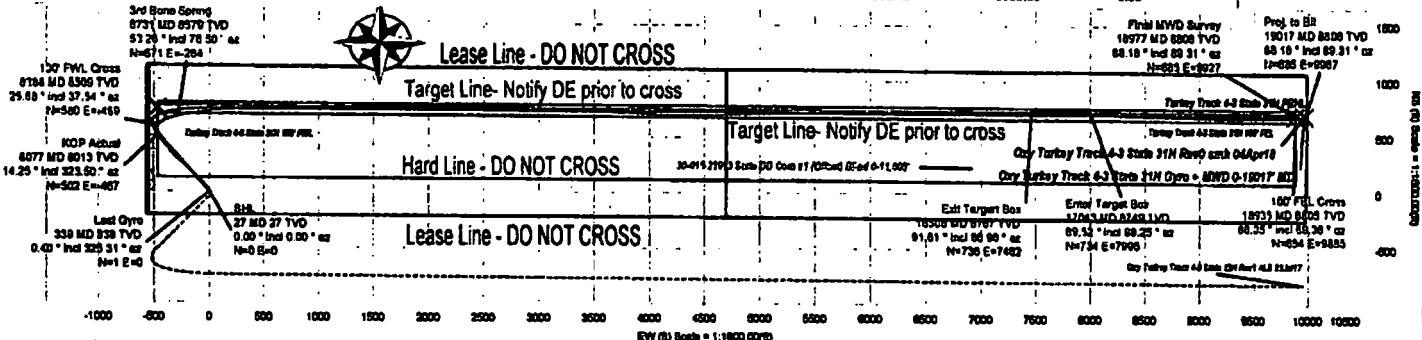
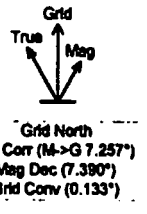
OXY



Borehole: Original Borehole Well: Oxy Turkey Track 4-3 State 31H Field: NM Eddy County (NAD 83) Structure: Oxy Turkey Track 4-3 State 31H

Gravity & Magnetic Parameters
 Model: HGSB 31H Dip: 68.427° Date: 26-Jul-2018 Surface Location: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 MagDec: 7.25° FB: 48274.55mT Gravity FB: 984.81mga (0.0005 Gauss) Lat: N 33 41 58.55 Longitude: 107 21 12.818 Grid Cont: 6.1326° Scale Fact: 0.8889127
 Elev: 48274.55m TVD Ref: 19017 MD 8426 TD 68 18" Incl 69 31" az N=683 E=9927

Critical Point	MD	BCCL	AZM	TVD	VSEC	N(=N4)	E(=E4)	DLA
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00
Last Gyro	338.50	0.40	323.31	338.50	0.07	0.71	0.02	0.42
KOP Actual	6077.00	14.25	323.50	6013.21	-430.35	501.62	-468.66	1.05
100' FWL Cross	6368.00	25.68	37.54	6309.39	-426.63	589.19	-469.18	13.41
3rd Bone Spring	6731.00	53.26	76.50	6576.00	-236.72	671.44	-294.49	12.23
Exit Target Box	16508.00	91.61	68.66	6767.13	7495.69	733.94	7482.46	1.21
Enter Target Box	17043.00	89.52	98.25	6746.75	6027.51	733.82	7093.73	1.45
100' FEL Cross	18035.00	68.35	69.38	6805.05	9908.54	684.49	9684.87	0.42
Final MWD Survey	18977.00	68.18	69.31	6806.32	9950.45	684.98	9826.53	0.42
Proj. to Bt	19017.00	68.18	69.31	6807.59	9990.36	685.48	9968.53	0.00



Vertical Section (ft) Azm = 65.91° Scale = 1:1800.00(1) Origin = ON-S, OE-W