

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 20 2017

RECEIVED

KAISER-FRANCIS OIL COMPANY

Eddy County, NM (NAD83) NMEZ

WILLIAMS FEE 2524 LBC

#1H

OH

Plan: Plan #1

Standard Planning Report

15 November, 2017

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well #1H
Company:	KAISER-FRANCIS OIL COMPANY	TVD Reference:	RKB @ 3021.20usft (Rig KB = 25')
Project:	Eddy County, NM (NAD83) NMEZ	MD Reference:	RKB @ 3021.20usft (Rig KB = 25')
Site:	WILLIAMS FEE 2524 LBC	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Eddy County, NM (NAD83) NMEZ, New Mexico		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	WILLIAMS FEE 2524 LBC				
Site Position:		Northing:	464,779.91 usft	Latitude:	32° 16' 38.708 N
From:	Lat/Long	Easting:	631,297.20 usft	Longitude:	104° 2' 32.101 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.16 °

Well	#1H					
Well Position	+N/-S	0.01 usft	Northing:	464,779.92 usft	Latitude:	32° 16' 38.708 N
	+E/-W	0.00 usft	Easting:	631,297.20 usft	Longitude:	104° 2' 32.101 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	2,996.20 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/14/17	7.13	60.03	47,880.38714341

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	6,258.00	0.00	0.00	359.17

Plan Survey Tool Program	Date	11/15/17		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	13,340.75	Plan #1 (OH)	MWD
				OWSG MWD - Standard

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,300.00	4.50	252.00	2,299.69	-3.64	-11.20	1.50	1.50	0.00	252.00	
5,008.66	4.50	252.00	5,000.00	-69.31	-213.32	0.00	0.00	0.00	0.00	
5,308.66	0.00	0.00	5,299.69	-72.95	-224.51	1.50	-1.50	0.00	180.00	
5,694.07	0.00	0.00	5,685.10	-72.95	-224.51	0.00	0.00	0.00	0.00	
6,594.07	90.00	359.17	6,258.06	499.95	-232.80	10.00	10.00	-0.09	359.17	
13,340.75	90.00	359.17	6,258.00	7,245.93	-330.30	0.00	0.00	0.00	0.00	PBHL(WF2425#1H)

Planning Report

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 Company: KAISER-FRANCIS OIL COMPANY
 Project: Eddy County, NM (NAD83) NMEZ
 Site: WILLIAMS FEE 2524 LBC
 Well: #1H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #1H
 TVD Reference: RKB @ 3021.20usft (Rig KB = 25')
 MD Reference: RKB @ 3021.20usft (Rig KB = 25')
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Start of Nudge: 4.5° INC, 152°AZ/@1.5°DLS									
2,100.00	1.50	252.00	2,099.99	-0.40	-1.24	-0.39	1.50	1.50	0.00
2,200.00	3.00	252.00	2,199.91	-1.62	-4.98	-1.55	1.50	1.50	0.00
2,300.00	4.50	252.00	2,299.69	-3.64	-11.20	-3.48	1.50	1.50	0.00
2,400.00	4.50	252.00	2,399.38	-6.06	-18.66	-5.79	0.00	0.00	0.00
2,500.00	4.50	252.00	2,499.08	-8.49	-26.12	-8.11	0.00	0.00	0.00
2,600.00	4.50	252.00	2,598.77	-10.91	-33.58	-10.42	0.00	0.00	0.00
2,680.48	4.50	252.00	2,679.00	-12.86	-39.59	-12.29	0.00	0.00	0.00
Base Salt (Top Delaware)									
2,700.00	4.50	252.00	2,698.46	-13.34	-41.05	-12.74	0.00	0.00	0.00
2,800.00	4.50	252.00	2,798.15	-15.76	-48.51	-15.06	0.00	0.00	0.00
2,900.00	4.50	252.00	2,897.84	-18.19	-55.97	-17.37	0.00	0.00	0.00
3,000.00	4.50	252.00	2,997.53	-20.61	-63.43	-19.69	0.00	0.00	0.00
3,100.00	4.50	252.00	3,097.23	-23.03	-70.89	-22.01	0.00	0.00	0.00
3,200.00	4.50	252.00	3,196.92	-25.46	-78.36	-24.32	0.00	0.00	0.00
3,300.00	4.50	252.00	3,296.61	-27.88	-85.82	-26.64	0.00	0.00	0.00
3,400.00	4.50	252.00	3,396.30	-30.31	-93.28	-28.95	0.00	0.00	0.00
3,440.83	4.50	252.00	3,437.00	-31.30	-96.33	-29.90	0.00	0.00	0.00
Top Cherry Canyon									
3,500.00	4.50	252.00	3,495.99	-32.73	-100.74	-31.27	0.00	0.00	0.00
3,600.00	4.50	252.00	3,595.68	-35.16	-108.20	-33.59	0.00	0.00	0.00
3,700.00	4.50	252.00	3,695.38	-37.58	-115.67	-35.90	0.00	0.00	0.00
3,800.00	4.50	252.00	3,795.07	-40.01	-123.13	-38.22	0.00	0.00	0.00
3,900.00	4.50	252.00	3,894.76	-42.43	-130.59	-40.53	0.00	0.00	0.00
4,000.00	4.50	252.00	3,994.45	-44.86	-138.05	-42.85	0.00	0.00	0.00
4,100.00	4.50	252.00	4,094.14	-47.28	-145.51	-45.17	0.00	0.00	0.00
4,200.00	4.50	252.00	4,193.83	-49.70	-152.97	-47.48	0.00	0.00	0.00
4,300.00	4.50	252.00	4,293.53	-52.13	-160.44	-49.80	0.00	0.00	0.00
4,400.00	4.50	252.00	4,393.22	-54.55	-167.90	-52.12	0.00	0.00	0.00
4,500.00	4.50	252.00	4,492.91	-56.98	-175.36	-54.43	0.00	0.00	0.00
4,600.00	4.50	252.00	4,592.60	-59.40	-182.82	-56.75	0.00	0.00	0.00
4,700.00	4.50	252.00	4,692.29	-61.83	-190.28	-59.06	0.00	0.00	0.00

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,779.95	4.50	252.00	4,772.00	-63.77	-196.25	-60.92	0.00	0.00	0.00
Top Brushy Canyon									
4,800.00	4.50	252.00	4,791.99	-64.25	-197.75	-61.38	0.00	0.00	0.00
4,900.00	4.50	252.00	4,891.68	-66.68	-205.21	-63.70	0.00	0.00	0.00
5,008.66	4.50	252.00	5,000.00	-69.31	-213.32	-66.21	0.00	0.00	0.00
Drop to Vertical @1.5°DLS									
5,100.00	3.13	252.00	5,091.14	-71.19	-219.10	-68.01	1.50	-1.50	0.00
5,200.00	1.63	252.00	5,191.05	-72.47	-223.04	-69.23	1.50	-1.50	0.00
5,308.66	0.00	0.00	5,299.69	-72.95	-224.51	-69.69	1.50	-1.50	0.00
5,400.00	0.00	0.00	5,391.03	-72.95	-224.51	-69.69	0.00	0.00	0.00
5,500.00	0.00	0.00	5,491.03	-72.95	-224.51	-69.69	0.00	0.00	0.00
5,600.00	0.00	0.00	5,591.03	-72.95	-224.51	-69.69	0.00	0.00	0.00
5,694.07	0.00	0.00	5,685.10	-72.95	-224.51	-69.69	0.00	0.00	0.00
KOP: 5694.07' MD, 5685.10' TVD - Build at 10°/100ft to 90° INC @ 359.17° AZ									
5,700.00	0.59	359.17	5,691.03	-72.92	-224.52	-69.66	10.01	10.01	0.00
5,750.00	5.59	359.17	5,740.94	-70.22	-224.55	-66.96	10.00	10.00	0.00
5,800.00	10.59	359.17	5,790.43	-63.19	-224.66	-59.92	10.00	10.00	0.00
5,850.00	15.59	359.17	5,839.12	-51.86	-224.82	-48.60	10.00	10.00	0.00
5,900.00	20.59	359.17	5,886.63	-36.34	-225.04	-33.08	10.00	10.00	0.00
5,950.00	25.59	359.17	5,932.61	-16.74	-225.33	-13.47	10.00	10.00	0.00
6,000.00	30.59	359.17	5,976.70	6.80	-225.67	10.07	10.00	10.00	0.00
6,014.40	32.03	359.17	5,989.00	14.28	-225.78	17.55	10.00	10.00	0.00
Top Lower Brushy Canyon									
6,050.00	35.59	359.17	6,018.58	34.09	-226.06	37.36	10.00	10.00	0.00
6,100.00	40.59	359.17	6,057.92	64.92	-226.51	68.19	10.00	10.00	0.00
6,150.00	45.59	359.17	6,094.42	99.07	-227.00	102.34	10.00	10.00	0.00
6,200.00	50.59	359.17	6,127.80	136.26	-227.54	139.54	10.00	10.00	0.00
6,250.00	55.59	359.17	6,157.82	176.23	-228.12	179.51	10.00	10.00	0.00
6,300.00	60.59	359.17	6,184.24	218.65	-228.73	221.94	10.00	10.00	0.00
6,309.85	61.58	359.17	6,189.00	227.28	-228.85	230.57	10.00	10.00	0.00
Top Mobil Sand									
6,350.00	65.59	359.17	6,206.86	263.22	-229.37	266.52	10.00	10.00	0.00
6,400.00	70.59	359.17	6,225.50	309.59	-230.04	312.89	10.00	10.00	0.00
6,450.00	75.59	359.17	6,240.04	357.41	-230.74	360.72	10.00	10.00	0.00
6,500.00	80.59	359.17	6,250.35	406.31	-231.44	409.62	10.00	10.00	0.00
6,550.00	85.59	359.17	6,256.36	455.93	-232.16	459.25	10.00	10.00	0.00
6,594.07	90.00	359.17	6,258.06	499.95	-232.80	503.27	10.00	10.00	0.00
EOC: 6594.07' MD, 6258.06' TVD, 90.00° INC, 359.17° AZ, 503.27' VS									
6,600.00	90.00	359.17	6,258.06	505.88	-232.88	509.20	0.00	0.00	0.00
6,636.29	90.00	359.17	6,258.06	542.16	-233.41	545.49	0.00	0.00	0.00
FTP(WF2425#1H)									
6,700.00	90.00	359.17	6,258.06	605.87	-234.33	609.20	0.00	0.00	0.00
6,800.00	90.00	359.17	6,258.06	705.86	-235.77	709.20	0.00	0.00	0.00
6,900.00	90.00	359.17	6,258.06	805.85	-237.22	809.20	0.00	0.00	0.00
7,000.00	90.00	359.17	6,258.05	905.84	-238.66	909.20	0.00	0.00	0.00
7,100.00	90.00	359.17	6,258.05	1,005.83	-240.11	1,009.20	0.00	0.00	0.00
7,200.00	90.00	359.17	6,258.05	1,105.82	-241.55	1,109.20	0.00	0.00	0.00
7,300.00	90.00	359.17	6,258.05	1,205.81	-243.00	1,209.20	0.00	0.00	0.00
7,400.00	90.00	359.17	6,258.05	1,305.80	-244.44	1,309.20	0.00	0.00	0.00
7,500.00	90.00	359.17	6,258.05	1,405.79	-245.89	1,409.20	0.00	0.00	0.00
7,600.00	90.00	359.17	6,258.05	1,505.78	-247.33	1,509.20	0.00	0.00	0.00
7,700.00	90.00	359.17	6,258.05	1,605.77	-248.78	1,609.20	0.00	0.00	0.00
7,800.00	90.00	359.17	6,258.05	1,705.76	-250.22	1,709.20	0.00	0.00	0.00

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,900.00	90.00	359.17	6,258.05	1,805.75	-251.67	1,809.20	0.00	0.00	0.00
8,000.00	90.00	359.17	6,258.05	1,905.74	-253.11	1,909.20	0.00	0.00	0.00
8,100.00	90.00	359.17	6,258.05	2,005.72	-254.56	2,009.20	0.00	0.00	0.00
8,200.00	90.00	359.17	6,258.04	2,105.71	-256.01	2,109.20	0.00	0.00	0.00
8,300.00	90.00	359.17	6,258.04	2,205.70	-257.45	2,209.20	0.00	0.00	0.00
8,400.00	90.00	359.17	6,258.04	2,305.69	-258.90	2,309.20	0.00	0.00	0.00
8,500.00	90.00	359.17	6,258.04	2,405.68	-260.34	2,409.20	0.00	0.00	0.00
8,600.00	90.00	359.17	6,258.04	2,505.67	-261.79	2,509.20	0.00	0.00	0.00
8,700.00	90.00	359.17	6,258.04	2,605.66	-263.23	2,609.20	0.00	0.00	0.00
8,800.00	90.00	359.17	6,258.04	2,705.65	-264.68	2,709.20	0.00	0.00	0.00
8,900.00	90.00	359.17	6,258.04	2,805.64	-266.12	2,809.20	0.00	0.00	0.00
9,000.00	90.00	359.17	6,258.04	2,905.63	-267.57	2,909.20	0.00	0.00	0.00
9,100.00	90.00	359.17	6,258.04	3,005.62	-269.01	3,009.20	0.00	0.00	0.00
9,200.00	90.00	359.17	6,258.04	3,105.61	-270.46	3,109.20	0.00	0.00	0.00
9,300.00	90.00	359.17	6,258.03	3,205.60	-271.90	3,209.20	0.00	0.00	0.00
9,400.00	90.00	359.17	6,258.03	3,305.59	-273.35	3,309.20	0.00	0.00	0.00
9,500.00	90.00	359.17	6,258.03	3,405.58	-274.79	3,409.20	0.00	0.00	0.00
9,600.00	90.00	359.17	6,258.03	3,505.57	-276.24	3,509.20	0.00	0.00	0.00
9,700.00	90.00	359.17	6,258.03	3,605.56	-277.68	3,609.20	0.00	0.00	0.00
9,800.00	90.00	359.17	6,258.03	3,705.55	-279.13	3,709.20	0.00	0.00	0.00
9,900.00	90.00	359.17	6,258.03	3,805.54	-280.57	3,809.20	0.00	0.00	0.00
10,000.00	90.00	359.17	6,258.03	3,905.53	-282.02	3,909.20	0.00	0.00	0.00
10,100.00	90.00	359.17	6,258.03	4,005.52	-283.47	4,009.20	0.00	0.00	0.00
10,200.00	90.00	359.17	6,258.03	4,105.51	-284.91	4,109.20	0.00	0.00	0.00
10,300.00	90.00	359.17	6,258.03	4,205.50	-286.36	4,209.20	0.00	0.00	0.00
10,400.00	90.00	359.17	6,258.03	4,305.48	-287.80	4,309.20	0.00	0.00	0.00
10,500.00	90.00	359.17	6,258.02	4,405.47	-289.25	4,409.20	0.00	0.00	0.00
10,600.00	90.00	359.17	6,258.02	4,505.46	-290.69	4,509.20	0.00	0.00	0.00
10,700.00	90.00	359.17	6,258.02	4,605.45	-292.14	4,609.20	0.00	0.00	0.00
10,800.00	90.00	359.17	6,258.02	4,705.44	-293.58	4,709.20	0.00	0.00	0.00
10,900.00	90.00	359.17	6,258.02	4,805.43	-295.03	4,809.20	0.00	0.00	0.00
11,000.00	90.00	359.17	6,258.02	4,905.42	-296.47	4,909.20	0.00	0.00	0.00
11,100.00	90.00	359.17	6,258.02	5,005.41	-297.92	5,009.20	0.00	0.00	0.00
11,200.00	90.00	359.17	6,258.02	5,105.40	-299.36	5,109.20	0.00	0.00	0.00
11,300.00	90.00	359.17	6,258.02	5,205.39	-300.81	5,209.20	0.00	0.00	0.00
11,400.00	90.00	359.17	6,258.02	5,305.38	-302.25	5,309.20	0.00	0.00	0.00
11,500.00	90.00	359.17	6,258.02	5,405.37	-303.70	5,409.20	0.00	0.00	0.00
11,600.00	90.00	359.17	6,258.02	5,505.36	-305.14	5,509.20	0.00	0.00	0.00
11,700.00	90.00	359.17	6,258.01	5,605.35	-306.59	5,609.20	0.00	0.00	0.00
11,800.00	90.00	359.17	6,258.01	5,705.34	-308.03	5,709.20	0.00	0.00	0.00
11,900.00	90.00	359.17	6,258.01	5,805.33	-309.48	5,809.20	0.00	0.00	0.00
12,000.00	90.00	359.17	6,258.01	5,905.32	-310.93	5,909.20	0.00	0.00	0.00
12,100.00	90.00	359.17	6,258.01	6,005.31	-312.37	6,009.20	0.00	0.00	0.00
12,200.00	90.00	359.17	6,258.01	6,105.30	-313.82	6,109.20	0.00	0.00	0.00
12,300.00	90.00	359.17	6,258.01	6,205.29	-315.26	6,209.20	0.00	0.00	0.00
12,400.00	90.00	359.17	6,258.01	6,305.28	-316.71	6,309.20	0.00	0.00	0.00
12,500.00	90.00	359.17	6,258.01	6,405.27	-318.15	6,409.20	0.00	0.00	0.00
12,600.00	90.00	359.17	6,258.01	6,505.26	-319.60	6,509.20	0.00	0.00	0.00
12,700.00	90.00	359.17	6,258.01	6,605.24	-321.04	6,609.20	0.00	0.00	0.00
12,800.00	90.00	359.17	6,258.00	6,705.23	-322.49	6,709.20	0.00	0.00	0.00
12,900.00	90.00	359.17	6,258.00	6,805.22	-323.93	6,809.20	0.00	0.00	0.00
13,000.00	90.00	359.17	6,258.00	6,905.21	-325.38	6,909.20	0.00	0.00	0.00
13,100.00	90.00	359.17	6,258.00	7,005.20	-326.82	7,009.20	0.00	0.00	0.00
13,200.00	90.00	359.17	6,258.00	7,105.19	-328.27	7,109.20	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well #1H
Company:	KAISER-FRANCIS OIL COMPANY	TVD Reference:	RKB @ 3021.20usft (Rig KB = 25')
Project:	Eddy County, NM (NAD83) NMEZ	MD Reference:	RKB @ 3021.20usft (Rig KB = 25')
Site:	WILLIAMS FEE 2524 LBC	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,300.00	90.00	359.17	6,258.00	7,205.18	-329.71	7,209.20	0.00	0.00	0.00
13,340.75	90.00	359.17	6,258.00	7,245.93	-330.30	7,249.95	0.00	0.00	0.00

TD: 13340.75' MD, 6258.00' TVD - PBHL(WF2425#1H)

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(WF2425#1H) - plan misses target center by 0.40usft at 6636.29usft MD (6258.06 TVD, 542.16 N, -233.41 E) - Point	0.00	0.00	6,258.00	542.17	-233.01	465,322.09	631,064.18	32° 16' 44.080 N	104° 2' 34.798 W
PBHL(WF2425#1H) - plan hits target center - Point	0.00	0.00	6,258.00	7,245.93	-330.30	472,025.85	630,966.89	32° 17' 50.422 N	104° 2' 35.720 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,680.48	2,679.00	Base Salt (Top Delaware)			
3,440.83	3,437.00	Top Cherry Canyon			
4,779.95	4,772.00	Top Brushy Canyon			
6,014.40	5,989.00	Top Lower Brushy Canyon			
6,309.85	6,189.00	Top Mobil Sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	Start of Nudge: 4.5° INC, 152°AZ/@1.5°DLS
5,008.66	5,000.00	-69.31	-213.32	Drop to Vertical /@1.5°DLS
5,694.07	5,685.10	-72.95	-224.51	KOP: 5694.07' MD, 5685.10' TVD
5,694.07	5,685.10	-72.95	-224.51	Build at 10°/100ft to 90° INC @ 359.17° AZ
6,594.07	6,258.06	499.95	-232.80	EOC: 6594.07' MD, 6258.06' TVD, 90.00° INC, 359.17° AZ, 503.27' VS
13,340.75	6,258.00	7,245.93	-330.30	TD: 13340.75' MD, 6258.00' TVD