

CASE NO. 23426

**APPLICATION OF BTA OIL PRODUCERS, LLC TO RESCIND APPROVAL
OF FOUR APPLICATIONS FOR PERMIT TO DRILL ISSUED TO TEXAS STANDARD
OPERATING NM LLC, LEA COUNTY, NEW MEXICO**

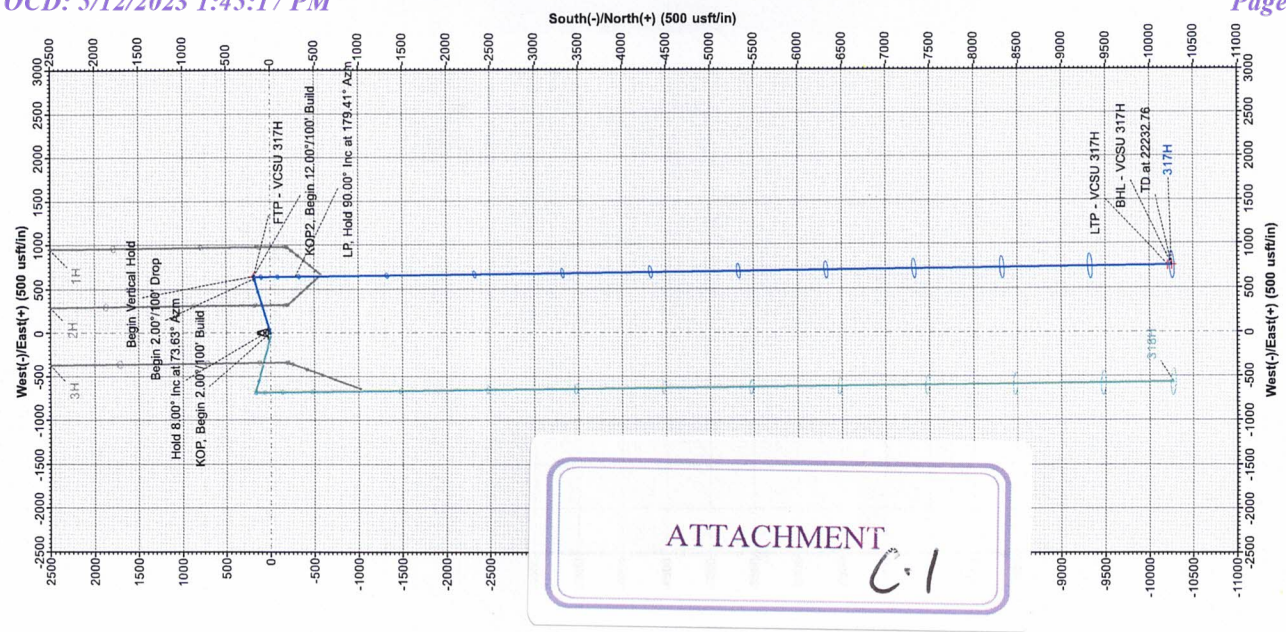
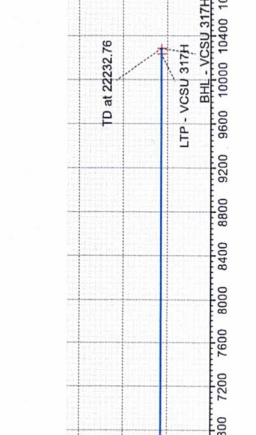
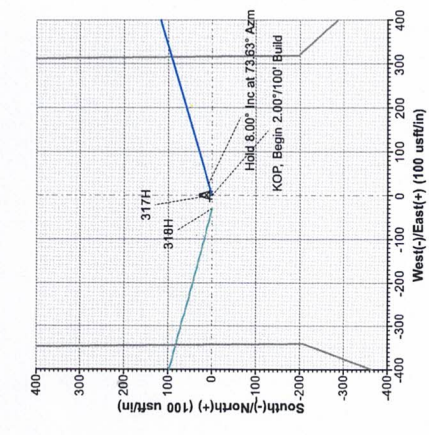
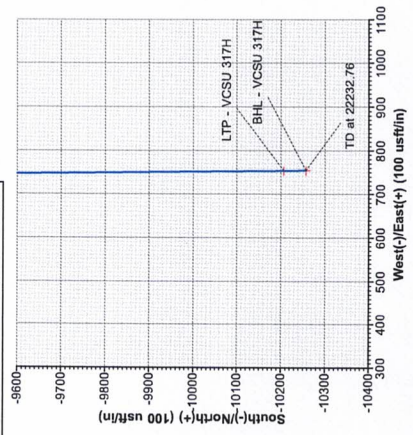
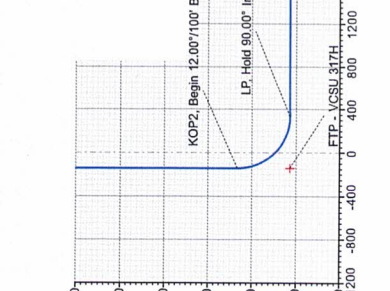
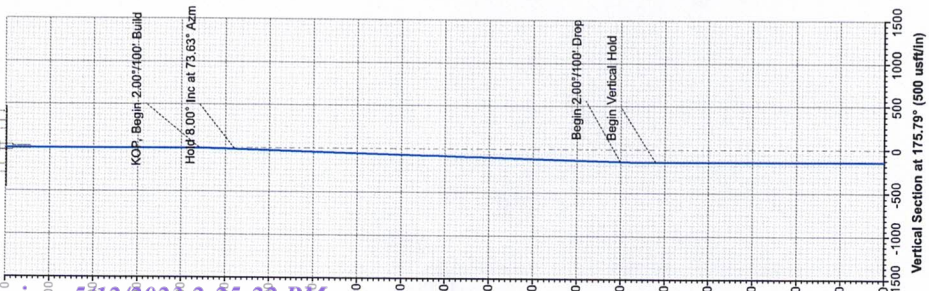
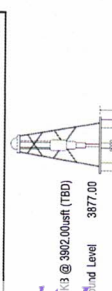
EXHIBIT LIST OF TEXAS STANDARD OPERATING, LLC (In Seven Parts)

1. Landman's Affidavit and Attachments A through D
2. Engineer's Affidavit with Attachments A-1 and A-2
 - 2(a). Attachments A-3 and A-4 to Exhibit 2
 - 2(b). Attachments B-1 and B-2 to Exhibit 2
 - 2(c). Attachments B-3 and B-4 to Exhibit 2
 - 2(d). Attachments C-1 through C-3 to Exhibit 2
 - 2(e). Attachments D-1 through D-3 and Attachment E to Exhibit 2

WELL DETAILS			
True North	Grid North	Latitude	Longitude
0.00	655319.12	32° 49' 36.782860 N	103° 21' 49.990960 W
SECTION DETAILS			
Sec	MD	Inc	Annulation
1	0.00	0.00	KOP, Begin 2.007'100' Build
2	2200.00	0.00	Hold 8.00' Inc at 73.63° Azim
3	2600.00	0.00	Begin 2.007'100' Drop
4	7036.07	8.00	Begin Vertical Hold
5	11513.30	0.00	LP, Hold 90.00' Inc at 179.41° Azim
6	12253.30	90.00	TD at 2232.76

DESIGN TARGET DETAILS			
Name	TVD	North	East
BHL - VCSU 317H	11945.00	-10256.69	655319.12
FTP - VCSU 317H	11945.00	188.67	643.87
LTP - VCSU 317H	11945.00	-10266.70	753.84

Map System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone Name: New Mexico Eastern Zone
 Local Origin: Well 317H, Grid North
 Latitude: 32° 49' 36.782890 N
 Longitude: 103° 21' 49.990960 W
 Grid East: 839132.24
 Grid North: 655319.12
 Scale Factor: 1.000
 Geomagnetic Model: MVHD
 Sample Date: 25-Apr-23
 Magnetic Declination: 6.230°
 Dip Angle from Horizontal: 60.538°
 Magnetic Field Strength: 47564.86183341 nT
 To convert a Magnetic Direction to a Grid Direction, Add 6.230°
 To convert a Magnetic Direction to a True Direction, Add 6.230° East
 To convert a True Direction to a Grid Direction, Subtract 0.526°



ATTACHMENT C-1



Texas Standard Oil

Lea County, NM (NAD 83 - NME)
Vindicator Caynon State Unit
317H

OH

Plan: Plan 1 04-26-23

Standard Planning Report

26 April, 2023





Database:	USAEDMDB	Local Co-ordinate Reference:	Well 317H
Company:	Texas Standard Oil	TVD Reference:	RKB @ 3902.00usft (TBD)
Project:	Lea County, NM (NAD 83 - NME)	MD Reference:	RKB @ 3902.00usft (TBD)
Site:	Vindicator Caynon State Unit	North Reference:	Grid
Well:	317H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 04-26-23		

Project	Lea County, NM (NAD 83 - NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Vindicator Caynon State Unit				
Site Position:		Northing:	665,919.12 usft	Latitude:	32° 49' 36.782890 N
From:	Map	Easting:	839,132.24 usft	Longitude:	103° 21' 49.990090 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	317H					
Well Position	+N/-S	0.00 usft	Northing:	665,919.12 usft	Latitude:	32° 49' 36.782890 N
	+E/-W	0.00 usft	Easting:	839,132.24 usft	Longitude:	103° 21' 49.990090 W
Position Uncertainty		1.00 usft	Wellhead Elevation:	usft	Ground Level:	3,877.00 usft
Grid Convergence:	0.526 °					

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	2023-04-25	6.230	60.538	47,564.88183341

Design	Plan 1 04-26-23			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	175.79

Plan Survey Tool Program	Date	2023-04-26		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,232.76 Plan 1 04-26-23 (OH)	MWD+HRGM	OWSG MWD + HRGM

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	0.000	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,600.00	8.00	73.63	2,598.70	7.86	26.75	2.00	2.00	0.00	73.634	
7,036.07	8.00	73.63	6,991.60	181.81	619.12	0.00	0.00	0.00	0.000	
7,436.07	0.00	0.00	7,390.30	189.67	645.87	2.00	-2.00	0.00	180.000	
11,513.30	0.00	0.00	11,467.54	189.67	645.87	0.00	0.00	0.00	0.000	
12,263.30	90.00	179.41	11,945.00	-287.77	650.83	12.00	12.00	0.00	179.405	
22,232.76	90.00	179.41	11,945.00	-10,256.69	754.34	0.00	0.00	0.00	0.000	BHL - VCSU 317H



Database:	USAEDMDB	Local Co-ordinate Reference:	Well 317H
Company:	Texas Standard Oil	TVD Reference:	RKB @ 3902.00usft (TBD)
Project:	Lea County, NM (NAD 83 - NME)	MD Reference:	RKB @ 3902.00usft (TBD)
Site:	Vindicator Caynon State Unit	North Reference:	Grid
Well:	317H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 04-26-23		

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	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build										
2,300.00	2.00	73.63	2,299.98	0.49	1.67	-0.37	2.00	2.00	0.00	0.00
2,400.00	4.00	73.63	2,399.84	1.97	6.70	-1.47	2.00	2.00	0.00	0.00
2,500.00	6.00	73.63	2,499.45	4.42	15.06	-3.31	2.00	2.00	0.00	0.00
2,600.00	8.00	73.63	2,598.70	7.86	26.75	-5.87	2.00	2.00	0.00	0.00
Hold 8.00° Inc at 73.63° Azm										
2,700.00	8.00	73.63	2,697.73	11.78	40.10	-8.80	0.00	0.00	0.00	0.00
2,800.00	8.00	73.63	2,796.76	15.70	53.46	-11.74	0.00	0.00	0.00	0.00
2,900.00	8.00	73.63	2,895.78	19.62	66.81	-14.67	0.00	0.00	0.00	0.00
3,000.00	8.00	73.63	2,994.81	23.54	80.16	-17.60	0.00	0.00	0.00	0.00
3,100.00	8.00	73.63	3,093.84	27.46	93.52	-20.53	0.00	0.00	0.00	0.00
3,200.00	8.00	73.63	3,192.86	31.38	106.87	-23.46	0.00	0.00	0.00	0.00
3,300.00	8.00	73.63	3,291.89	35.31	120.22	-26.39	0.00	0.00	0.00	0.00
3,400.00	8.00	73.63	3,390.92	39.23	133.58	-29.32	0.00	0.00	0.00	0.00
3,500.00	8.00	73.63	3,489.94	43.15	146.93	-32.26	0.00	0.00	0.00	0.00
3,600.00	8.00	73.63	3,588.97	47.07	160.29	-35.19	0.00	0.00	0.00	0.00
3,700.00	8.00	73.63	3,688.00	50.99	173.64	-38.12	0.00	0.00	0.00	0.00
3,800.00	8.00	73.63	3,787.02	54.91	186.99	-41.05	0.00	0.00	0.00	0.00
3,900.00	8.00	73.63	3,886.05	58.83	200.35	-43.98	0.00	0.00	0.00	0.00
4,000.00	8.00	73.63	3,985.08	62.76	213.70	-46.91	0.00	0.00	0.00	0.00
4,100.00	8.00	73.63	4,084.10	66.68	227.05	-49.84	0.00	0.00	0.00	0.00
4,200.00	8.00	73.63	4,183.13	70.60	240.41	-52.78	0.00	0.00	0.00	0.00
4,300.00	8.00	73.63	4,282.16	74.52	253.76	-55.71	0.00	0.00	0.00	0.00
4,400.00	8.00	73.63	4,381.18	78.44	267.11	-58.64	0.00	0.00	0.00	0.00
4,500.00	8.00	73.63	4,480.21	82.36	280.47	-61.57	0.00	0.00	0.00	0.00
4,600.00	8.00	73.63	4,579.24	86.28	293.82	-64.50	0.00	0.00	0.00	0.00
4,700.00	8.00	73.63	4,678.26	90.21	307.17	-67.43	0.00	0.00	0.00	0.00
4,800.00	8.00	73.63	4,777.29	94.13	320.53	-70.36	0.00	0.00	0.00	0.00
4,900.00	8.00	73.63	4,876.32	98.05	333.88	-73.30	0.00	0.00	0.00	0.00
5,000.00	8.00	73.63	4,975.34	101.97	347.23	-76.23	0.00	0.00	0.00	0.00
5,100.00	8.00	73.63	5,074.37	105.89	360.59	-79.16	0.00	0.00	0.00	0.00
5,200.00	8.00	73.63	5,173.40	109.81	373.94	-82.09	0.00	0.00	0.00	0.00
5,300.00	8.00	73.63	5,272.43	113.74	387.29	-85.02	0.00	0.00	0.00	0.00
5,400.00	8.00	73.63	5,371.45	117.66	400.65	-87.95	0.00	0.00	0.00	0.00
5,500.00	8.00	73.63	5,470.48	121.58	414.00	-90.88	0.00	0.00	0.00	0.00
5,600.00	8.00	73.63	5,569.51	125.50	427.35	-93.82	0.00	0.00	0.00	0.00
5,700.00	8.00	73.63	5,668.53	129.42	440.71	-96.75	0.00	0.00	0.00	0.00
5,800.00	8.00	73.63	5,767.56	133.34	454.06	-99.68	0.00	0.00	0.00	0.00
5,900.00	8.00	73.63	5,866.59	137.26	467.42	-102.61	0.00	0.00	0.00	0.00
6,000.00	8.00	73.63	5,965.61	141.19	480.77	-105.54	0.00	0.00	0.00	0.00
6,100.00	8.00	73.63	6,064.64	145.11	494.12	-108.47	0.00	0.00	0.00	0.00
6,200.00	8.00	73.63	6,163.67	149.03	507.48	-111.40	0.00	0.00	0.00	0.00
6,300.00	8.00	73.63	6,262.69	152.95	520.83	-114.34	0.00	0.00	0.00	0.00
6,400.00	8.00	73.63	6,361.72	156.87	534.18	-117.27	0.00	0.00	0.00	0.00
6,500.00	8.00	73.63	6,460.75	160.79	547.54	-120.20	0.00	0.00	0.00	0.00
6,600.00	8.00	73.63	6,559.77	164.71	560.89	-123.13	0.00	0.00	0.00	0.00
6,700.00	8.00	73.63	6,658.80	168.64	574.24	-126.06	0.00	0.00	0.00	0.00
6,800.00	8.00	73.63	6,757.83	172.56	587.60	-128.99	0.00	0.00	0.00	0.00
6,900.00	8.00	73.63	6,856.85	176.48	600.95	-131.92	0.00	0.00	0.00	0.00
7,000.00	8.00	73.63	6,955.88	180.40	614.30	-134.86	0.00	0.00	0.00	0.00
7,036.07	8.00	73.63	6,991.60	181.81	619.12	-135.91	0.00	0.00	0.00	0.00



Database:	USAEDMDB	Local Co-ordinate Reference:	Well 317H
Company:	Texas Standard Oil	TVD Reference:	RKB @ 3902.00usft (TBD)
Project:	Lea County, NM (NAD 83 - NME)	MD Reference:	RKB @ 3902.00usft (TBD)
Site:	Vindicator Caynon State Unit	North Reference:	Grid
Well:	317H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 04-26-23		

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)	
Begin 2.00°/100' Drop										
7,100.00	6.72	73.63	7,055.00	184.12	626.98	-137.64	2.00	-2.00	0.00	
7,200.00	4.72	73.63	7,154.50	186.93	636.54	-139.74	2.00	-2.00	0.00	
7,300.00	2.72	73.63	7,254.28	188.76	642.77	-141.11	2.00	-2.00	0.00	
7,400.00	0.72	73.63	7,354.23	189.61	645.65	-141.74	2.00	-2.00	0.00	
7,436.07	0.00	0.00	7,390.30	189.67	645.87	-141.79	2.00	-2.00	-204.15	
Begin Vertical Hold										
7,500.00	0.00	0.00	7,454.23	189.67	645.87	-141.79	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,554.23	189.67	645.87	-141.79	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,654.23	189.67	645.87	-141.79	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,754.23	189.67	645.87	-141.79	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,854.23	189.67	645.87	-141.79	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,954.23	189.67	645.87	-141.79	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,054.23	189.67	645.87	-141.79	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,154.23	189.67	645.87	-141.79	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,254.23	189.67	645.87	-141.79	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,354.23	189.67	645.87	-141.79	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,454.23	189.67	645.87	-141.79	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,554.23	189.67	645.87	-141.79	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,654.23	189.67	645.87	-141.79	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,754.23	189.67	645.87	-141.79	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,854.23	189.67	645.87	-141.79	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,954.23	189.67	645.87	-141.79	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,054.23	189.67	645.87	-141.79	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,154.23	189.67	645.87	-141.79	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,254.23	189.67	645.87	-141.79	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,354.23	189.67	645.87	-141.79	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,454.23	189.67	645.87	-141.79	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,554.23	189.67	645.87	-141.79	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,654.23	189.67	645.87	-141.79	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,754.23	189.67	645.87	-141.79	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,854.23	189.67	645.87	-141.79	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,954.23	189.67	645.87	-141.79	0.00	0.00	0.00	
10,100.00	0.00	0.00	10,054.23	189.67	645.87	-141.79	0.00	0.00	0.00	
10,200.00	0.00	0.00	10,154.23	189.67	645.87	-141.79	0.00	0.00	0.00	
10,300.00	0.00	0.00	10,254.23	189.67	645.87	-141.79	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,354.23	189.67	645.87	-141.79	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,454.23	189.67	645.87	-141.79	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,554.23	189.67	645.87	-141.79	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,654.23	189.67	645.87	-141.79	0.00	0.00	0.00	
10,800.00	0.00	0.00	10,754.23	189.67	645.87	-141.79	0.00	0.00	0.00	
10,900.00	0.00	0.00	10,854.23	189.67	645.87	-141.79	0.00	0.00	0.00	
11,000.00	0.00	0.00	10,954.23	189.67	645.87	-141.79	0.00	0.00	0.00	
11,100.00	0.00	0.00	11,054.23	189.67	645.87	-141.79	0.00	0.00	0.00	
11,200.00	0.00	0.00	11,154.23	189.67	645.87	-141.79	0.00	0.00	0.00	
11,300.00	0.00	0.00	11,254.23	189.67	645.87	-141.79	0.00	0.00	0.00	
11,400.00	0.00	0.00	11,354.23	189.67	645.87	-141.79	0.00	0.00	0.00	
11,500.00	0.00	0.00	11,454.23	189.67	645.87	-141.79	0.00	0.00	0.00	
11,513.30	0.00	0.00	11,467.54	189.67	645.87	-141.79	0.00	0.00	0.00	
KOP2, Begin 12.00°/100' Build										
11,600.00	10.40	179.41	11,553.76	181.82	645.95	-133.95	12.00	12.00	0.00	
11,700.00	22.40	179.41	11,649.51	153.63	646.24	-105.82	12.00	12.00	0.00	
11,800.00	34.40	179.41	11,737.31	106.16	646.74	-58.43	12.00	12.00	0.00	



Database: USAEDMDB
 Company: Texas Standard Oil
 Project: Lea County, NM (NAD 83 - NME)
 Site: Vindicator Caynon State Unit
 Well: 317H
 Wellbore: OH
 Design: Plan 1 04-26-23

Local Co-ordinate Reference: Well 317H
 TVD Reference: RKB @ 3902.00usft (TBD)
 MD Reference: RKB @ 3902.00usft (TBD)
 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)
11,900.00	46.40	179.41	11,813.32	41.46	647.41	6.14	12.00	12.00	0.00
FTP - VCSU 317H									
12,000.00	58.40	179.41	11,874.22	-37.62	648.23	85.07	12.00	12.00	0.00
12,100.00	70.40	179.41	11,917.34	-127.64	649.16	174.91	12.00	12.00	0.00
12,200.00	82.40	179.41	11,940.81	-224.65	650.17	271.74	12.00	12.00	0.00
12,263.30	90.00	179.41	11,945.00	-287.77	650.83	334.73	12.00	12.00	0.00
LP, Hold 90.00° Inc at 179.41° Azm									
12,300.00	90.00	179.41	11,945.00	-324.46	651.21	371.35	0.00	0.00	0.00
12,400.00	90.00	179.41	11,945.00	-424.46	652.25	471.16	0.00	0.00	0.00
12,500.00	90.00	179.41	11,945.00	-524.45	653.29	570.96	0.00	0.00	0.00
12,600.00	90.00	179.41	11,945.00	-624.45	654.32	670.76	0.00	0.00	0.00
12,700.00	90.00	179.41	11,945.00	-724.44	655.36	770.56	0.00	0.00	0.00
12,800.00	90.00	179.41	11,945.00	-824.44	656.40	870.36	0.00	0.00	0.00
12,900.00	90.00	179.41	11,945.00	-924.43	657.44	970.16	0.00	0.00	0.00
13,000.00	90.00	179.41	11,945.00	-1,024.43	658.48	1,069.96	0.00	0.00	0.00
13,100.00	90.00	179.41	11,945.00	-1,124.42	659.51	1,169.77	0.00	0.00	0.00
13,200.00	90.00	179.41	11,945.00	-1,224.41	660.55	1,269.57	0.00	0.00	0.00
13,300.00	90.00	179.41	11,945.00	-1,324.41	661.59	1,369.37	0.00	0.00	0.00
13,400.00	90.00	179.41	11,945.00	-1,424.40	662.63	1,469.17	0.00	0.00	0.00
13,500.00	90.00	179.41	11,945.00	-1,524.40	663.67	1,568.97	0.00	0.00	0.00
13,600.00	90.00	179.41	11,945.00	-1,624.39	664.71	1,668.77	0.00	0.00	0.00
13,700.00	90.00	179.41	11,945.00	-1,724.39	665.74	1,768.57	0.00	0.00	0.00
13,800.00	90.00	179.41	11,945.00	-1,824.38	666.78	1,868.38	0.00	0.00	0.00
13,900.00	90.00	179.41	11,945.00	-1,924.38	667.82	1,968.18	0.00	0.00	0.00
14,000.00	90.00	179.41	11,945.00	-2,024.37	668.86	2,067.98	0.00	0.00	0.00
14,100.00	90.00	179.41	11,945.00	-2,124.37	669.90	2,167.78	0.00	0.00	0.00
14,200.00	90.00	179.41	11,945.00	-2,224.36	670.94	2,267.58	0.00	0.00	0.00
14,300.00	90.00	179.41	11,945.00	-2,324.36	671.97	2,367.38	0.00	0.00	0.00
14,400.00	90.00	179.41	11,945.00	-2,424.35	673.01	2,467.18	0.00	0.00	0.00
14,500.00	90.00	179.41	11,945.00	-2,524.34	674.05	2,566.99	0.00	0.00	0.00
14,600.00	90.00	179.41	11,945.00	-2,624.34	675.09	2,666.79	0.00	0.00	0.00
14,700.00	90.00	179.41	11,945.00	-2,724.33	676.13	2,766.59	0.00	0.00	0.00
14,800.00	90.00	179.41	11,945.00	-2,824.33	677.17	2,866.39	0.00	0.00	0.00
14,900.00	90.00	179.41	11,945.00	-2,924.32	678.20	2,966.19	0.00	0.00	0.00
15,000.00	90.00	179.41	11,945.00	-3,024.32	679.24	3,065.99	0.00	0.00	0.00
15,100.00	90.00	179.41	11,945.00	-3,124.31	680.28	3,165.79	0.00	0.00	0.00
15,200.00	90.00	179.41	11,945.00	-3,224.31	681.32	3,265.60	0.00	0.00	0.00
15,300.00	90.00	179.41	11,945.00	-3,324.30	682.36	3,365.40	0.00	0.00	0.00
15,400.00	90.00	179.41	11,945.00	-3,424.30	683.40	3,465.20	0.00	0.00	0.00
15,500.00	90.00	179.41	11,945.00	-3,524.29	684.43	3,565.00	0.00	0.00	0.00
15,600.00	90.00	179.41	11,945.00	-3,624.29	685.47	3,664.80	0.00	0.00	0.00
15,700.00	90.00	179.41	11,945.00	-3,724.28	686.51	3,764.60	0.00	0.00	0.00
15,800.00	90.00	179.41	11,945.00	-3,824.27	687.55	3,864.40	0.00	0.00	0.00
15,900.00	90.00	179.41	11,945.00	-3,924.27	688.59	3,964.21	0.00	0.00	0.00
16,000.00	90.00	179.41	11,945.00	-4,024.26	689.63	4,064.01	0.00	0.00	0.00
16,100.00	90.00	179.41	11,945.00	-4,124.26	690.66	4,163.81	0.00	0.00	0.00
16,200.00	90.00	179.41	11,945.00	-4,224.25	691.70	4,263.61	0.00	0.00	0.00
16,300.00	90.00	179.41	11,945.00	-4,324.25	692.74	4,363.41	0.00	0.00	0.00
16,400.00	90.00	179.41	11,945.00	-4,424.24	693.78	4,463.21	0.00	0.00	0.00
16,500.00	90.00	179.41	11,945.00	-4,524.24	694.82	4,563.01	0.00	0.00	0.00
16,600.00	90.00	179.41	11,945.00	-4,624.23	695.86	4,662.82	0.00	0.00	0.00
16,700.00	90.00	179.41	11,945.00	-4,724.23	696.89	4,762.62	0.00	0.00	0.00
16,800.00	90.00	179.41	11,945.00	-4,824.22	697.93	4,862.42	0.00	0.00	0.00
16,900.00	90.00	179.41	11,945.00	-4,924.22	698.97	4,962.22	0.00	0.00	0.00



Planning Report

Database:	USAEDMDB	Local Co-ordinate Reference:	Well 317H
Company:	Texas Standard Oil	TVD Reference:	RKB @ 3902.00usft (TBD)
Project:	Lea County, NM (NAD 83 - NME)	MD Reference:	RKB @ 3902.00usft (TBD)
Site:	Vindicator Caynon State Unit	North Reference:	Grid
Well:	317H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 04-26-23		

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)
17,000.00	90.00	179.41	11,945.00	-5,024.21	700.01	5,062.02	0.00	0.00	0.00
17,100.00	90.00	179.41	11,945.00	-5,124.20	701.05	5,161.82	0.00	0.00	0.00
17,200.00	90.00	179.41	11,945.00	-5,224.20	702.09	5,261.62	0.00	0.00	0.00
17,300.00	90.00	179.41	11,945.00	-5,324.19	703.12	5,361.43	0.00	0.00	0.00
17,400.00	90.00	179.41	11,945.00	-5,424.19	704.16	5,461.23	0.00	0.00	0.00
17,500.00	90.00	179.41	11,945.00	-5,524.18	705.20	5,561.03	0.00	0.00	0.00
17,600.00	90.00	179.41	11,945.00	-5,624.18	706.24	5,660.83	0.00	0.00	0.00
17,700.00	90.00	179.41	11,945.00	-5,724.17	707.28	5,760.63	0.00	0.00	0.00
17,800.00	90.00	179.41	11,945.00	-5,824.17	708.31	5,860.43	0.00	0.00	0.00
17,900.00	90.00	179.41	11,945.00	-5,924.16	709.35	5,960.23	0.00	0.00	0.00
18,000.00	90.00	179.41	11,945.00	-6,024.16	710.39	6,060.04	0.00	0.00	0.00
18,100.00	90.00	179.41	11,945.00	-6,124.15	711.43	6,159.84	0.00	0.00	0.00
18,200.00	90.00	179.41	11,945.00	-6,224.15	712.47	6,259.64	0.00	0.00	0.00
18,300.00	90.00	179.41	11,945.00	-6,324.14	713.51	6,359.44	0.00	0.00	0.00
18,400.00	90.00	179.41	11,945.00	-6,424.13	714.54	6,459.24	0.00	0.00	0.00
18,500.00	90.00	179.41	11,945.00	-6,524.13	715.58	6,559.04	0.00	0.00	0.00
18,600.00	90.00	179.41	11,945.00	-6,624.12	716.62	6,658.84	0.00	0.00	0.00
18,700.00	90.00	179.41	11,945.00	-6,724.12	717.66	6,758.65	0.00	0.00	0.00
18,800.00	90.00	179.41	11,945.00	-6,824.11	718.70	6,858.45	0.00	0.00	0.00
18,900.00	90.00	179.41	11,945.00	-6,924.11	719.74	6,958.25	0.00	0.00	0.00
19,000.00	90.00	179.41	11,945.00	-7,024.10	720.77	7,058.05	0.00	0.00	0.00
19,100.00	90.00	179.41	11,945.00	-7,124.10	721.81	7,157.85	0.00	0.00	0.00
19,200.00	90.00	179.41	11,945.00	-7,224.09	722.85	7,257.65	0.00	0.00	0.00
19,300.00	90.00	179.41	11,945.00	-7,324.09	723.89	7,357.45	0.00	0.00	0.00
19,400.00	90.00	179.41	11,945.00	-7,424.08	724.93	7,457.26	0.00	0.00	0.00
19,500.00	90.00	179.41	11,945.00	-7,524.08	725.97	7,557.06	0.00	0.00	0.00
19,600.00	90.00	179.41	11,945.00	-7,624.07	727.00	7,656.86	0.00	0.00	0.00
19,700.00	90.00	179.41	11,945.00	-7,724.06	728.04	7,756.66	0.00	0.00	0.00
19,800.00	90.00	179.41	11,945.00	-7,824.06	729.08	7,856.46	0.00	0.00	0.00
19,900.00	90.00	179.41	11,945.00	-7,924.05	730.12	7,956.26	0.00	0.00	0.00
20,000.00	90.00	179.41	11,945.00	-8,024.05	731.16	8,056.06	0.00	0.00	0.00
20,100.00	90.00	179.41	11,945.00	-8,124.04	732.20	8,155.87	0.00	0.00	0.00
20,200.00	90.00	179.41	11,945.00	-8,224.04	733.23	8,255.67	0.00	0.00	0.00
20,300.00	90.00	179.41	11,945.00	-8,324.03	734.27	8,355.47	0.00	0.00	0.00
20,400.00	90.00	179.41	11,945.00	-8,424.03	735.31	8,455.27	0.00	0.00	0.00
20,500.00	90.00	179.41	11,945.00	-8,524.02	736.35	8,555.07	0.00	0.00	0.00
20,600.00	90.00	179.41	11,945.00	-8,624.02	737.39	8,654.87	0.00	0.00	0.00
20,700.00	90.00	179.41	11,945.00	-8,724.01	738.43	8,754.67	0.00	0.00	0.00
20,800.00	90.00	179.41	11,945.00	-8,824.01	739.46	8,854.48	0.00	0.00	0.00
20,900.00	90.00	179.41	11,945.00	-8,924.00	740.50	8,954.28	0.00	0.00	0.00
21,000.00	90.00	179.41	11,945.00	-9,023.99	741.54	9,054.08	0.00	0.00	0.00
21,100.00	90.00	179.41	11,945.00	-9,123.99	742.58	9,153.88	0.00	0.00	0.00
21,200.00	90.00	179.41	11,945.00	-9,223.98	743.62	9,253.68	0.00	0.00	0.00
21,300.00	90.00	179.41	11,945.00	-9,323.98	744.66	9,353.48	0.00	0.00	0.00
21,400.00	90.00	179.41	11,945.00	-9,423.97	745.69	9,453.28	0.00	0.00	0.00
21,500.00	90.00	179.41	11,945.00	-9,523.97	746.73	9,553.09	0.00	0.00	0.00
21,600.00	90.00	179.41	11,945.00	-9,623.96	747.77	9,652.89	0.00	0.00	0.00
21,700.00	90.00	179.41	11,945.00	-9,723.96	748.81	9,752.69	0.00	0.00	0.00
21,800.00	90.00	179.41	11,945.00	-9,823.95	749.85	9,852.49	0.00	0.00	0.00
21,900.00	90.00	179.41	11,945.00	-9,923.95	750.88	9,952.29	0.00	0.00	0.00
22,000.00	90.00	179.41	11,945.00	-10,023.94	751.92	10,052.09	0.00	0.00	0.00
22,100.00	90.00	179.41	11,945.00	-10,123.94	752.96	10,151.89	0.00	0.00	0.00
22,182.77	90.00	179.41	11,945.00	-10,206.70	753.82	10,234.50	0.00	0.00	0.00



Database:	USAEDMDB	Local Co-ordinate Reference:	Well 317H
Company:	Texas Standard Oil	TVD Reference:	RKB @ 3902.00usft (TBD)
Project:	Lea County, NM (NAD 83 - NME)	MD Reference:	RKB @ 3902.00usft (TBD)
Site:	Vindicator Caynon State Unit	North Reference:	Grid
Well:	317H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 04-26-23		

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)
LTP - VCSU 317H									
22,200.00	90.00	179.41	11,945.00	-10,223.93	754.00	10,251.70	0.00	0.00	0.00
22,232.76	90.00	179.41	11,945.00	-10,256.69	754.34	10,284.39	0.00	0.00	0.00
TD at 22232.76 - BHL - VCSU 317H									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP - VCSU 317H - hit/miss target - Shape	0.00	0.00	11,945.00	-10,206.70	753.84	655,712.42	839,886.08	32° 47' 55.732261 N	103° 21' 42.255712 W
- plan misses target center by 0.02usft at 22182.77usft MD (11945.00 TVD, -10206.70 N, 753.82 E)									
- Point									
BHL - VCSU 317H - plan hits target center - Point	0.00	0.00	11,945.00	-10,256.69	754.34	655,662.43	839,886.58	32° 47' 55.237627 N	103° 21' 42.255235 W
FTP - VCSU 317H - plan misses target center by 198.26usft at 11900.00usft MD (11813.32 TVD, 41.46 N, 647.41 E) - Point	0.00	0.00	11,945.00	189.67	645.87	666,108.79	839,778.11	32° 49' 38.600745 N	103° 21' 42.401315 W

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
2,200.00	2,200.00	0.00	0.00	KOP, Begin 2.00°/100' Build	
2,600.00	2,598.70	7.86	26.75	Hold 8.00° Inc at 73.63° Azm	
7,036.07	6,991.60	181.81	619.12	Begin 2.00°/100' Drop	
7,436.07	7,390.30	189.67	645.87	Begin Vertical Hold	
11,513.30	11,467.54	189.67	645.87	KOP2, Begin 12.00°/100' Build	
12,263.30	11,945.00	-287.77	650.83	LP, Hold 90.00° Inc at 179.41° Azm	
22,232.76	11,945.00	-10,256.69	754.34	TD at 22232.76	

Phoenix Technology Services
Plan Report 26-Apr-2023 08:03:14

Texas Standard Oil

Vindicator Caynon State Unit 317H
Lea County, NM (NAD 83 - NME)
OH
Plan 1 04-26-23

Surface Loc.:
Northing: (Y) 665919.12
Easting: (X) 839132.24
RKB Elev: 3902.00'
GL Elev: 3877.00'

Survey Type Information:
H 0.00 - 22232.76 PLAN 1 04-26-23 : MWD+HRGM

Measured Depth (ft)	Incl.	Azim.	Sub-Sea Depth (ft)	Vertical Depth (ft)	Local Coord (+N/-S) (ft)	Local Coord (+E/-W) (ft)	Map Coordinates Northings (ft)	Map Coordinates Eastings (ft)	Geogr: Latitude	Geogr: Longitude	Vertical Section (ft)	Dogleg Rate (dega/10C Annotation)
0	0	0	-3902	0	0	0	665919.1	839132.2	32.82688	-103.364	0	0
2200	0	0	-1702	2200	0	0	665919.1	839132.2	32.82688	-103.364	0	0 KOP, Begin 2.00°/100' Build
2300	2	73.634	-1602.02	2299.98	0.49	1.67	665919.6	839133.9	32.82689	-103.364	-0.37	2
2400	4	73.634	-1502.16	2399.84	1.97	6.7	665921.1	839138.9	32.82689	-103.364	-1.47	2
2500	6	73.634	-1402.55	2499.45	4.42	15.06	665923.5	839147.3	32.8269	-103.364	-3.31	2
2600.002	8	73.634	-1303.3	2598.7	7.86	26.75	665927	839159	32.82691	-103.364	-5.87	2 Hold 8.00° Inc at 73.63° Azm
2700	8	73.634	-1204.27	2697.73	11.78	40.1	665930.9	839172.3	32.82692	-103.364	-8.8	0
2800	8	73.634	-1105.24	2796.76	15.7	53.46	665934.8	839185.7	32.82693	-103.364	-11.74	0
2900	8	73.634	-1006.22	2895.78	19.62	66.81	665938.7	839199.1	32.82694	-103.364	-14.67	0
3000	8	73.634	-907.19	2994.81	23.54	80.16	665942.7	839212.4	32.82695	-103.364	-17.6	0
3100	8	73.634	-808.16	3093.84	27.46	93.52	665946.6	839225.8	32.82696	-103.364	-20.53	0
3200	8	73.634	-709.14	3192.86	31.38	106.87	665950.5	839239.1	32.82697	-103.364	-23.46	0
3300	8	73.634	-610.11	3291.89	35.31	120.22	665954.4	839252.5	32.82698	-103.363	-26.39	0
3400	8	73.634	-511.08	3390.92	39.23	133.58	665958.4	839265.8	32.82699	-103.363	-29.32	0
3500	8	73.634	-412.06	3489.94	43.15	146.93	665962.3	839279.2	32.827	-103.363	-32.26	0
3600	8	73.634	-313.03	3588.97	47.07	160.29	665966.2	839292.5	32.82701	-103.363	-35.19	0
3700	8	73.634	-214	3688	50.99	173.64	665970.1	839305.9	32.82702	-103.363	-38.12	0
3800	8	73.634	-114.98	3787.02	54.91	186.99	665974	839319.2	32.82703	-103.363	-41.05	0
3900	8	73.634	-15.95	3886.05	58.83	200.35	665978	839332.6	32.82704	-103.363	-43.98	0
4000	8	73.634	83.08	3985.08	62.76	213.7	665981.9	839345.9	32.82705	-103.363	-46.91	0
4100	8	73.634	182.1	4084.1	66.68	227.05	665985.8	839359.3	32.82706	-103.363	-49.84	0
4200	8	73.634	281.13	4183.13	70.6	240.41	665989.7	839372.7	32.82707	-103.363	-52.78	0
4300	8	73.634	380.16	4282.16	74.52	253.76	665993.6	839386	32.82708	-103.363	-55.71	0
4400	8	73.634	479.18	4381.18	78.44	267.11	665997.6	839399.4	32.82709	-103.363	-58.64	0
4500	8	73.634	578.21	4480.21	82.36	280.47	666001.5	839412.7	32.8271	-103.363	-61.57	0
4600	8	73.634	677.24	4579.24	86.28	293.82	666005.4	839426.1	32.82711	-103.363	-64.5	0
4700	8	73.634	776.26	4678.26	90.21	307.17	666009.3	839439.4	32.82712	-103.363	-67.43	0
4800	8	73.634	875.29	4777.29	94.13	320.53	666013.3	839452.8	32.82713	-103.363	-70.36	0
4900	8	73.634	974.32	4876.32	98.05	333.88	666017.2	839466.1	32.82715	-103.363	-73.3	0
5000	8	73.634	1073.34	4975.34	101.97	347.23	666021.1	839479.5	32.82716	-103.363	-76.23	0
5100	8	73.634	1172.37	5074.37	105.89	360.59	666025	839492.8	32.82717	-103.363	-79.16	0
5200	8	73.634	1271.4	5173.4	109.81	373.94	666028.9	839506.2	32.82718	-103.363	-82.09	0
5300	8	73.634	1370.43	5272.43	113.74	387.29	666032.9	839519.5	32.82719	-103.363	-85.02	0
5400	8	73.634	1469.45	5371.45	117.66	400.65	666036.8	839532.9	32.8272	-103.363	-87.95	0
5500	8	73.634	1568.48	5470.48	121.58	414	666040.7	839546.2	32.82721	-103.363	-90.88	0
5600	8	73.634	1667.51	5569.51	125.5	427.35	666044.6	839559.6	32.82722	-103.362	-93.82	0
5700	8	73.634	1766.53	5668.53	129.42	440.71	666048.5	839573	32.82723	-103.362	-96.75	0
5800	8	73.634	1865.56	5767.56	133.34	454.06	666052.5	839586.3	32.82724	-103.362	-99.68	0
5900	8	73.634	1964.59	5866.59	137.26	467.42	666056.4	839599.7	32.82725	-103.362	-102.61	0
6000	8	73.634	2063.61	5965.61	141.19	480.77	666060.3	839613	32.82726	-103.362	-105.54	0
6100	8	73.634	2162.64	6064.64	145.11	494.12	666064.2	839626.4	32.82727	-103.362	-108.47	0
6200	8	73.634	2261.67	6163.67	149.03	507.48	666068.2	839639.7	32.82728	-103.362	-111.4	0
6300	8	73.634	2360.69	6262.69	152.95	520.83	666072.1	839653.1	32.82729	-103.362	-114.34	0
6400	8	73.634	2459.72	6361.72	156.87	534.18	666076	839666.4	32.8273	-103.362	-117.27	0
6500	8	73.634	2558.75	6460.75	160.79	547.54	666079.9	839679.8	32.82731	-103.362	-120.2	0
6600	8	73.634	2657.77	6559.77	164.71	560.89	666083.8	839693.1	32.82732	-103.362	-123.13	0
6700	8	73.634	2756.8	6658.8	168.64	574.24	666087.8	839706.5	32.82733	-103.362	-126.06	0
6800	8	73.634	2855.83	6757.83	172.56	587.6	666091.7	839719.8	32.82734	-103.362	-128.99	0
6900	8	73.634	2954.85	6856.85	176.48	600.95	666095.6	839733.2	32.82735	-103.362	-131.92	0
7000	8	73.634	3053.88	6955.88	180.4	614.3	666099.5	839746.5	32.82736	-103.362	-134.86	0
7036.067	8	73.634	3089.6	6991.6	181.81	619.12	666100.9	839751.4	32.82737	-103.362	-135.91	0 Begin 2.00°/100' Drop
7100	6.721	73.634	3153	7055	184.12	626.98	666103.2	839759.2	32.82737	-103.362	-137.64	2
7200	4.721	73.634	3252.5	7154.5	186.93	636.54	666106.1	839768.8	32.82738	-103.362	-139.74	2
7300	2.721	73.634	3352.28	7254.28	188.76	642.77	666107.9	839775	32.82739	-103.362	-141.11	2
7400	0.721	73.634	3452.23	7354.23	189.61	645.65	666108.7	839777.9	32.82739	-103.362	-141.74	2
7436.069	0	0	3488.3	7390.3	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	2 Begin Vertical Hold
7500	0	0	3552.23	7454.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
7600	0	0	3652.23	7554.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
7700	0	0	3752.23	7654.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0



7800	0	0	3852.23	7754.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
7900	0	0	3952.23	7854.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
8000	0	0	4052.23	7954.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
8100	0	0	4152.23	8054.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
8200	0	0	4252.23	8154.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
8300	0	0	4352.23	8254.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
8400	0	0	4452.23	8354.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
8500	0	0	4552.23	8454.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
8600	0	0	4652.23	8554.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
8700	0	0	4752.23	8654.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
8800	0	0	4852.23	8754.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
8900	0	0	4952.23	8854.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
9000	0	0	5052.23	8954.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
9100	0	0	5152.23	9054.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
9200	0	0	5252.23	9154.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
9300	0	0	5352.23	9254.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
9400	0	0	5452.23	9354.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
9500	0	0	5552.23	9454.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
9600	0	0	5652.23	9554.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
9700	0	0	5752.23	9654.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
9800	0	0	5852.23	9754.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
9900	0	0	5952.23	9854.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
10000	0	0	6052.23	9954.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
10100	0	0	6152.23	10054.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
10200	0	0	6252.23	10154.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
10300	0	0	6352.23	10254.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
10400	0	0	6452.23	10354.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
10500	0	0	6552.23	10454.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
10600	0	0	6652.23	10554.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
10700	0	0	6752.23	10654.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
10800	0	0	6852.23	10754.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
10900	0	0	6952.23	10854.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
11000	0	0	7052.23	10954.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
11100	0	0	7152.23	11054.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
11200	0	0	7252.23	11154.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
11300	0	0	7352.23	11254.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
11400	0	0	7452.23	11354.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
11500	0	0	7552.23	11454.23	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0
11513.3	0	0	7565.54	11467.54	189.67	645.87	666108.8	839778.1	32.82739	-103.362	-141.79	0 KOP2, Begin 12.00°/100° Build
11525	1.404	179.405	7577.23	11479.23	189.53	645.87	666108.7	839778.1	32.82739	-103.362	-141.64	12
11550	4.404	179.405	7602.2	11504.2	188.26	645.88	666107.4	839778.1	32.82739	-103.362	-140.38	12
11575	7.404	179.405	7627.06	11529.06	185.69	645.91	666104.8	839778.2	32.82738	-103.362	-137.81	12
11600	10.404	179.405	7651.76	11553.76	181.82	645.95	666100.9	839778.2	32.82737	-103.362	-133.95	12
11625	13.404	179.405	7676.22	11578.22	176.67	646.01	666095.8	839778.3	32.82735	-103.362	-128.81	12
11650	16.404	179.405	7700.37	11602.37	170.24	646.07	666089.4	839778.3	32.82734	-103.362	-122.39	12
11675	19.404	179.405	7724.16	11626.16	162.55	646.15	666081.7	839778.4	32.82731	-103.362	-114.72	12
11700	22.404	179.405	7747.51	11649.51	153.63	646.24	666072.8	839778.5	32.82729	-103.362	-105.82	12
11725	25.404	179.405	7770.36	11672.36	143.51	646.35	666062.6	839778.6	32.82726	-103.362	-95.71	12
11750	28.404	179.405	7792.65	11694.65	132.2	646.47	666051.3	839778.7	32.82723	-103.362	-84.42	12
11775	31.404	179.405	7814.32	11716.32	119.73	646.6	666038.9	839778.8	32.8272	-103.362	-71.99	12
11800	34.404	179.405	7835.31	11737.31	106.16	646.74	666025.3	839779	32.82716	-103.362	-58.43	12
11825	37.404	179.405	7855.56	11757.56	91.5	646.89	666010.6	839779.1	32.82712	-103.362	-43.8	12
11850	40.404	179.405	7875.01	11777.01	75.8	647.05	665994.9	839779.3	32.82708	-103.362	-28.14	12
11875	43.404	179.405	7893.62	11795.62	59.11	647.23	665978.2	839779.5	32.82703	-103.362	-11.47	12
11900	46.404	179.405	7911.32	11813.32	41.46	647.41	665960.6	839779.7	32.82698	-103.362	6.14	12
11925	49.404	179.405	7928.08	11830.08	22.91	647.6	665942	839779.8	32.82693	-103.362	24.65	12
11950	52.404	179.405	7943.84	11845.84	3.51	647.8	665922.6	839780	32.82688	-103.362	44.01	12
11975	55.404	179.405	7958.57	11860.57	-16.68	648.01	665902.4	839780.3	32.82682	-103.362	64.17	12
12000	58.404	179.405	7972.22	11874.22	-37.62	648.23	665881.5	839780.5	32.82676	-103.362	85.07	12
12025	61.404	179.405	7984.76	11886.76	-59.25	648.45	665859.9	839780.7	32.8267	-103.362	106.65	12
12050	64.404	179.405	7996.14	11898.14	-81.5	648.69	665837.6	839780.9	32.82664	-103.362	128.86	12
12075	67.404	179.405	8006.35	11908.35	-104.32	648.92	665814.8	839781.2	32.82658	-103.362	151.63	12
12100	70.404	179.405	8015.34	11917.34	-127.64	649.16	665791.5	839781.4	32.82652	-103.362	174.91	12
12125	73.404	179.405	8023.11	11925.11	-151.4	649.41	665767.7	839781.7	32.82645	-103.362	198.62	12
12150	76.404	179.405	8029.62	11931.62	-175.53	649.66	665743.6	839781.9	32.82639	-103.362	222.71	12
12175	79.404	179.405	8034.86	11936.86	-199.97	649.92	665719.2	839782.2	32.82632	-103.362	247.1	12
12200	82.404	179.405	8038.81	11940.81	-224.65	650.17	665694.5	839782.4	32.82625	-103.362	271.74	12
12225	85.404	179.405	8041.46	11943.46	-249.51	650.43	665669.6	839782.7	32.82618	-103.362	296.54	12
12250	88.404	179.405	8042.81	11944.81	-274.47	650.69	665644.7	839782.9	32.82611	-103.362	321.46	12
12263.3	90	179.405	8043	11945	-287.77	650.83	665631.4	839783.1	32.82608	-103.362	334.73	12 LP, Hold 90.00° Inc at 179.41° Azm
12300	90	179.405	8043	11945	-324.46	651.21	665594.7	839783.5	32.82598	-103.362	371.35	0
12400	90	179.405	8043	11945	-424.46	652.25	665494.7	839784.5	32.8257	-103.362	471.16	0
12500	90	179.405	8043	11945	-524.45	653.29	665394.7	839785.5	32.82543	-103.362	570.96	0
12600	90	179.405	8043	11945	-624.45	654.32	665294.7	839786.6	32.82515	-103.362	670.76	0
12700	90	179.405	8043	11945	-724.44	655.36	665194.7	839787.6	32.82488	-103.362	770.56	0
12800	90	179.405	8043	11945	-824.44	656.4	665094.7	839788.6	32.8246	-103.362	870.36	0
12900	90	179.405	8043	11945	-924.43	657.44	664994.7	839789.7	32.82433	-103.362	970.16	0
13000	90	179.405	8043	11945	-1024.43	658.48	664894.7	839790.7	32.82405	-103.362	1069.96	0
13100	90	179.405	8043	11945	-1124.42	659.51	664794.7	839791.8	32.82378	-103.362	1169.77	0
13200	90	179.405	8043	11945	-1224.41	660.55	664694.7	839792.8	32.8235	-103.362	1269.57	0
13300	90	179.405	8043	11945	-1324.41	661.59	664594.7	839793.8	32.82323	-103.362	1369.37	0
13400	90	179.405	8043	11945	-1424.4	662.63	664494.7	839794.9	32.82295	-103.362	1469.17	0
13500	90	179.405	8043	11945	-1524.4	663.67	664394.7	839795.9	32.82268	-103.362	1568.97	0

13600	90	179.405	8043	11945	-1624.39	664.71	664294.7	839797	32.8224	-103.362	1668.77	0
13700	90	179.405	8043	11945	-1724.39	665.74	664194.7	839798	32.82213	-103.362	1768.57	0
13800	90	179.405	8043	11945	-1824.38	666.78	664094.7	839799	32.82185	-103.362	1868.38	0
13900	90	179.405	8043	11945	-1924.38	667.82	663994.7	839800.1	32.82158	-103.362	1968.18	0
14000	90	179.405	8043	11945	-2024.37	668.86	663894.8	839801.1	32.8213	-103.362	2067.98	0
14100	90	179.405	8043	11945	-2124.37	669.9	663794.8	839802.1	32.82103	-103.362	2167.78	0
14200	90	179.405	8043	11945	-2224.36	670.94	663694.8	839803.2	32.82075	-103.362	2267.58	0
14300	90	179.405	8043	11945	-2324.36	671.97	663594.8	839804.2	32.82048	-103.362	2367.38	0
14400	90	179.405	8043	11945	-2424.35	673.01	663494.8	839805.3	32.8202	-103.362	2467.18	0
14500	90	179.405	8043	11945	-2524.34	674.05	663394.8	839806.3	32.81993	-103.362	2566.99	0
14600	90	179.405	8043	11945	-2624.34	675.09	663294.8	839807.3	32.81965	-103.362	2666.79	0
14700	90	179.405	8043	11945	-2724.33	676.13	663194.8	839808.4	32.81938	-103.362	2766.59	0
14800	90	179.405	8043	11945	-2824.33	677.17	663094.8	839809.4	32.81911	-103.362	2866.39	0
14900	90	179.405	8043	11945	-2924.32	678.2	662994.8	839810.4	32.81883	-103.362	2966.19	0
15000	90	179.405	8043	11945	-3024.32	679.24	662894.8	839811.5	32.81856	-103.362	3065.99	0
15100	90	179.405	8043	11945	-3124.31	680.28	662794.8	839812.5	32.81828	-103.362	3165.79	0
15200	90	179.405	8043	11945	-3224.31	681.32	662694.8	839813.6	32.81801	-103.362	3265.6	0
15300	90	179.405	8043	11945	-3324.3	682.36	662594.8	839814.6	32.81773	-103.362	3365.4	0
15400	90	179.405	8043	11945	-3424.3	683.4	662494.8	839815.6	32.81746	-103.362	3465.2	0
15500	90	179.405	8043	11945	-3524.29	684.43	662394.8	839816.7	32.81718	-103.362	3565	0
15600	90	179.405	8043	11945	-3624.29	685.47	662294.8	839817.7	32.81691	-103.362	3664.8	0
15700	90	179.405	8043	11945	-3724.28	686.51	662194.8	839818.8	32.81663	-103.362	3764.6	0
15800	90	179.405	8043	11945	-3824.27	687.55	662094.9	839819.8	32.81636	-103.362	3864.4	0
15900	90	179.405	8043	11945	-3924.27	688.59	661994.9	839820.8	32.81608	-103.362	3964.21	0
16000	90	179.405	8043	11945	-4024.26	689.63	661894.9	839821.9	32.81581	-103.362	4064.01	0
16100	90	179.405	8043	11945	-4124.26	690.66	661794.9	839822.9	32.81553	-103.362	4163.81	0
16200	90	179.405	8043	11945	-4224.25	691.7	661694.9	839823.9	32.81526	-103.362	4263.61	0
16300	90	179.405	8043	11945	-4324.25	692.74	661594.9	839825	32.81498	-103.362	4363.41	0
16400	90	179.405	8043	11945	-4424.24	693.78	661494.9	839826	32.81471	-103.362	4463.21	0
16500	90	179.405	8043	11945	-4524.24	694.82	661394.9	839827.1	32.81443	-103.362	4563.01	0
16600	90	179.405	8043	11945	-4624.23	695.86	661294.9	839828.1	32.81416	-103.362	4662.82	0
16700	90	179.405	8043	11945	-4724.23	696.89	661194.9	839829.1	32.81388	-103.362	4762.62	0
16800	90	179.405	8043	11945	-4824.22	697.93	661094.9	839830.2	32.81361	-103.362	4862.42	0
16900	90	179.405	8043	11945	-4924.22	698.97	660994.9	839831.2	32.81333	-103.362	4962.22	0
17000	90	179.405	8043	11945	-5024.21	700.01	660894.9	839832.3	32.81306	-103.362	5062.02	0
17100	90	179.405	8043	11945	-5124.2	701.05	660794.9	839833.3	32.81278	-103.362	5161.82	0
17200	90	179.405	8043	11945	-5224.2	702.09	660694.9	839834.3	32.81251	-103.362	5261.62	0
17300	90	179.405	8043	11945	-5324.19	703.12	660594.9	839835.4	32.81223	-103.362	5361.43	0
17400	90	179.405	8043	11945	-5424.19	704.16	660494.9	839836.4	32.81196	-103.362	5461.23	0
17500	90	179.405	8043	11945	-5524.18	705.2	660394.9	839837.4	32.81168	-103.362	5561.03	0
17600	90	179.405	8043	11945	-5624.18	706.24	660294.9	839838.5	32.81141	-103.362	5660.83	0
17700	90	179.405	8043	11945	-5724.17	707.28	660195	839839.5	32.81113	-103.362	5760.63	0
17800	90	179.405	8043	11945	-5824.17	708.31	660095	839840.6	32.81086	-103.362	5860.43	0
17900	90	179.405	8043	11945	-5924.16	709.35	659995	839841.6	32.81059	-103.362	5960.23	0
18000	90	179.405	8043	11945	-6024.16	710.39	659895	839842.6	32.81031	-103.362	6060.04	0
18100	90	179.405	8043	11945	-6124.15	711.43	659795	839843.7	32.81004	-103.362	6159.84	0
18200	90	179.405	8043	11945	-6224.15	712.47	659695	839844.7	32.80976	-103.362	6259.64	0
18300	90	179.405	8043	11945	-6324.14	713.51	659595	839845.8	32.80949	-103.362	6359.44	0
18400	90	179.405	8043	11945	-6424.13	714.54	659495	839846.8	32.80921	-103.362	6459.24	0
18500	90	179.405	8043	11945	-6524.13	715.58	659395	839847.8	32.80894	-103.362	6559.04	0
18600	90	179.405	8043	11945	-6624.12	716.62	659295	839848.9	32.80866	-103.362	6658.84	0
18700	90	179.405	8043	11945	-6724.12	717.66	659195	839849.9	32.80839	-103.362	6758.65	0
18800	90	179.405	8043	11945	-6824.11	718.7	659095	839850.9	32.80811	-103.362	6858.45	0
18900	90	179.405	8043	11945	-6924.11	719.74	658995	839852	32.80784	-103.362	6958.25	0
19000	90	179.405	8043	11945	-7024.1	720.77	658895	839853	32.80756	-103.362	7058.05	0
19100	90	179.405	8043	11945	-7124.1	721.81	658795	839854.1	32.80729	-103.362	7157.85	0
19200	90	179.405	8043	11945	-7224.09	722.85	658695	839855.1	32.80701	-103.362	7257.65	0
19300	90	179.405	8043	11945	-7324.09	723.89	658595	839856.1	32.80674	-103.362	7357.45	0
19400	90	179.405	8043	11945	-7424.08	724.93	658495	839857.2	32.80646	-103.362	7457.26	0
19500	90	179.405	8043	11945	-7524.08	725.97	658395	839858.2	32.80619	-103.362	7557.06	0
19600	90	179.405	8043	11945	-7624.07	727	658295.1	839859.2	32.80591	-103.362	7656.86	0
19700	90	179.405	8043	11945	-7724.06	728.04	658195.1	839860.3	32.80564	-103.362	7756.66	0
19800	90	179.405	8043	11945	-7824.06	729.08	658095.1	839861.3	32.80536	-103.362	7856.46	0
19900	90	179.405	8043	11945	-7924.05	730.12	657995.1	839862.4	32.80509	-103.362	7956.26	0
20000	90	179.405	8043	11945	-8024.05	731.16	657895.1	839863.4	32.80481	-103.362	8056.06	0
20100	90	179.405	8043	11945	-8124.04	732.2	657795.1	839864.4	32.80454	-103.362	8155.86	0
20200	90	179.405	8043	11945	-8224.04	733.23	657695.1	839865.5	32.80426	-103.362	8255.67	0
20300	90	179.405	8043	11945	-8324.03	734.27	657595.1	839866.5	32.80399	-103.362	8355.47	0
20400	90	179.405	8043	11945	-8424.03	735.31	657495.1	839867.6	32.80371	-103.362	8455.27	0
20500	90	179.405	8043	11945	-8524.02	736.35	657395.1	839868.6	32.80344	-103.362	8555.07	0
20600	90	179.405	8043	11945	-8624.02	737.39	657295.1	839869.6	32.80316	-103.362	8654.87	0
20700	90	179.405	8043	11945	-8724.01	738.43	657195.1	839870.7	32.80289	-103.362	8754.67	0
20800	90	179.405	8043	11945	-8824	739.46	657095.1	839871.7	32.80261	-103.362	8854.47	0
20900	90	179.405	8043	11945	-8924	740.5	656995.1	839872.7	32.80234	-103.362	8954.28	0
21000	90	179.405	8043	11945	-9023.99	741.54	656895.1	839873.8	32.80207	-103.362	9054.08	0
21100	90	179.405	8043	11945	-9123.99	742.58	656795.1	839874.8	32.80179	-103.362	9153.88	0
21200	90	179.405	8043	11945	-9223.98	743.62	656695.1	839875.9	32.80152	-103.362	9253.68	0
21300	90	179.405	8043	11945	-9323.98	744.66	656595.1	839876.9	32.80124	-103.362	9353.48	0
21400	90	179.405	8043	11945	-9423.97	745.69	656495.2	839877.9	32.80097	-103.362	9453.28	0
21500	90	179.405	8043	11945	-9523.97	746.73	656395.2	839879	32.80069	-103.362	9553.08	0
21600	90	179.405	8043	11945	-9623.96	747.77	656295.2	839880	32.80042	-103.362	9652.89	0
21700	90	179.405	8043	11945	-9723.96	748.81	656195.2	839881.1	32.80014	-103.362	9752.69	0
21800	90	179.405	8043	11945	-9823.95	749.85	656095.2	839882.1	32.79987	-103.362	9852.49	0

21900	90	179.405	8043	11945	-9923.95	750.88	655995.2	839883.1	32.79959	-103.362	9952.29	0
22000	90	179.405	8043	11945	-10023.9	751.92	655895.2	839884.2	32.79932	-103.362	10052.09	0
22100	90	179.405	8043	11945	-10123.9	752.96	655795.2	839885.2	32.79904	-103.362	10151.89	0
22200	90	179.405	8043	11945	-10223.9	754	655695.2	839886.2	32.79877	-103.362	10251.69	0
22232.76	90	179.405	8043	11945	-10256.7	754.34	655662.4	839886.6	32.79868	-103.362	10284.39	0 TD at 22232.76

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to RKB. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Slot and calculated along an Azimuth of 175.794° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.
Grid Convergence at Surface is 0.526°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 22232.76ft.,
the Bottom Hole Displacement is 10284.39ft., in the Direction of 175.794° (Grid).



Texas Standard Oil

Lea County, NM (NAD 83 - NME)
Vindicator Caynon State Unit
317H

OH
Plan 1 04-26-23

Anticollision Report

26 April, 2023

ATTACHMENT
C.3

TEXAS STANDARD OIL





Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Reference	Plan 1 04-26-23		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,423.28usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	2023-04-26		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	22,232.76	Plan 1 04-26-23 (OH)	MWD+HRGM	OWSG MWD + HRGM

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centers (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
State 9-16						
1H - OH - Plan 1 02-14-23	11,925.54	11,911.58	328.69	280.91	6.880 CC, ES	
1H - OH - Plan 1 02-14-23	12,000.00	11,894.46	336.51	286.27	6.698 SF	
2H - OH - Plan 1 02-15-23	11,926.48	11,917.46	331.18	283.94	7.011 CC, ES, SF	
3H - OH - Plan 1 02-15-23	11,800.00	11,978.87	999.25	949.84	20.220 SF	
3H - OH - Plan 1 02-15-23	11,928.63	11,968.48	991.04	942.91	20.589 CC, ES	
Vindicator Caynon State Unit						
318H - OH - Plan 1 04-26-23	2,000.00	2,000.00	30.00	18.68	2.651 CC, ES, SF	

Offset Design													Offset Site Error:	0.00 usft
1H - OH - Plan 1 02-14-23													Offset Well Error:	1.00 usft
Survey Program: 0-MWD+HRGM														
Reference	Offset		Semi Major Axis		Highside Toolface		Offset Wellbore Center		Distance		Minimum Separation	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)	(usft)			
0.00	0.00	0.00	0.00	1.00	1.00	130.20	-565.82	669.56	876.63					
100.00	100.00	95.00	95.00	1.32	1.12	130.20	-565.82	669.56	876.62	874.19	2.43	360.425		
200.00	200.00	195.00	195.00	1.79	1.62	130.20	-565.82	669.56	876.62	873.21	3.41	256.702		
300.00	300.00	295.00	295.00	2.17	2.03	130.20	-565.82	669.56	876.62	872.42	4.20	208.647		
400.00	400.00	395.00	395.00	2.49	2.37	130.20	-565.82	669.56	876.62	871.76	4.86	180.226		
500.00	500.00	495.00	495.00	2.78	2.67	130.20	-565.82	669.56	876.62	871.17	5.45	160.822		
600.00	600.00	595.00	595.00	3.04	2.94	130.20	-565.82	669.56	876.62	870.64	5.98	146.478		
700.00	700.00	695.00	695.00	3.28	3.19	130.20	-565.82	669.56	876.62	870.14	6.48	135.310		
800.00	800.00	795.00	795.00	3.51	3.43	130.20	-565.82	669.56	876.62	869.68	6.94	126.291		
900.00	900.00	895.00	895.00	3.73	3.65	130.20	-565.82	669.56	876.62	869.24	7.38	118.807		
1,000.00	1,000.00	995.00	995.00	3.94	3.86	130.20	-565.82	669.56	876.62	868.83	7.79	112.464		
1,100.00	1,100.00	1,095.00	1,095.00	4.13	4.06	130.20	-565.82	669.56	876.62	868.43	8.19	106.997		
1,200.00	1,200.00	1,195.00	1,195.00	4.32	4.25	130.20	-565.82	669.56	876.62	868.04	8.58	102.220		
1,300.00	1,300.00	1,295.00	1,295.00	4.51	4.44	130.20	-565.82	669.56	876.62	867.67	8.95	97.997		
1,400.00	1,400.00	1,395.00	1,395.00	4.68	4.62	130.20	-565.82	669.56	876.62	867.32	9.30	94.230		
1,500.00	1,500.00	1,495.00	1,495.00	4.86	4.79	130.20	-565.82	669.56	876.62	866.97	9.65	90.840		
1,600.00	1,600.00	1,595.00	1,595.00	5.03	4.96	130.20	-565.82	669.56	876.62	866.63	9.99	87.768		
1,700.00	1,700.00	1,695.00	1,695.00	5.19	5.13	130.20	-565.82	669.56	876.62	866.30	10.32	84.967		

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 1H - OH - Plan 1 02-14-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/S (usft)	+E/W (usft)	Between Centers (usft)	Between Ellipses (usft)			
1,800.00	1,800.00	1,795.00	1,795.00	5.35	5.29	130.20	-565.82	669.56	876.62	865.98	10.64	82.398	
1,900.00	1,900.00	1,895.00	1,895.00	5.51	5.45	130.20	-565.82	669.56	876.62	865.67	10.95	80.031	
2,000.00	2,000.00	1,995.00	1,995.00	5.66	5.60	130.20	-565.82	669.56	876.62	865.36	11.26	77.841	
2,100.00	2,100.00	2,095.00	2,095.00	5.81	5.75	130.20	-565.82	669.56	876.62	865.06	11.56	75.807	
2,200.00	2,200.00	2,195.00	2,195.00	5.96	5.90	130.20	-565.82	669.56	876.62	864.76	11.86	73.910	
2,300.00	2,299.98	2,294.98	2,294.98	6.18	6.05	56.68	-565.82	669.56	875.66	863.49	12.17	71.958	
2,400.00	2,399.84	2,394.84	2,394.84	6.40	6.19	57.01	-565.82	669.56	872.79	860.33	12.47	70.004	
2,500.00	2,499.45	2,494.45	2,494.45	6.63	6.33	57.57	-565.82	669.56	868.07	855.30	12.77	67.989	
2,600.00	2,598.70	2,593.70	2,593.70	6.89	6.47	58.36	-565.82	669.56	861.57	848.50	13.07	65.917	
2,700.00	2,697.73	2,692.73	2,692.73	7.09	6.61	59.15	-565.82	669.56	854.30	840.95	13.36	63.960	
2,800.00	2,796.76	2,791.76	2,791.76	7.31	6.74	59.96	-565.82	669.56	847.20	833.55	13.65	62.077	
2,900.00	2,895.78	2,890.78	2,890.78	7.55	6.88	60.77	-565.82	669.56	840.27	826.32	13.94	60.269	
3,000.00	2,994.81	2,989.81	2,989.81	7.81	7.01	61.60	-565.82	669.56	833.51	819.27	14.24	58.536	
3,100.00	3,093.84	3,088.84	3,088.84	8.08	7.14	62.44	-565.82	669.56	826.93	812.39	14.54	56.878	
3,200.00	3,192.86	3,187.86	3,187.86	8.36	7.27	63.30	-565.82	669.56	820.53	805.69	14.84	55.295	
3,300.00	3,291.89	3,286.89	3,286.89	8.66	7.39	64.16	-565.82	669.56	814.32	799.18	15.14	53.786	
3,400.00	3,390.92	3,385.92	3,385.92	8.97	7.52	65.04	-565.82	669.56	808.31	792.87	15.44	52.348	
3,500.00	3,489.94	3,484.94	3,484.94	9.29	7.64	65.94	-565.82	669.56	802.49	786.74	15.74	50.980	
3,600.00	3,588.97	3,583.97	3,583.97	9.61	7.77	66.84	-565.82	669.56	796.87	780.83	16.04	49.678	
3,700.00	3,688.00	3,683.00	3,683.00	9.95	7.89	67.76	-565.82	669.56	791.45	775.11	16.34	48.442	
3,800.00	3,787.02	3,782.02	3,782.02	10.29	8.01	68.69	-565.82	669.56	786.25	769.61	16.63	47.267	
3,900.00	3,886.05	3,881.05	3,881.05	10.64	8.13	69.64	-565.82	669.56	781.25	764.32	16.93	46.151	
4,000.00	3,985.08	3,980.08	3,980.08	11.00	8.25	70.59	-565.82	669.56	776.48	759.26	17.22	45.092	
4,100.00	4,084.10	4,079.10	4,079.10	11.36	8.37	71.56	-565.82	669.56	771.92	754.41	17.51	44.085	
4,200.00	4,183.13	4,178.13	4,178.13	11.72	8.49	72.53	-565.82	669.56	767.60	749.80	17.80	43.130	
4,300.00	4,282.16	4,277.16	4,277.16	12.10	8.60	73.52	-565.82	669.56	763.50	745.41	18.08	42.223	
4,400.00	4,381.18	4,376.18	4,376.18	12.47	8.72	74.52	-565.82	669.56	759.63	741.26	18.37	41.360	
4,500.00	4,480.21	4,475.21	4,475.21	12.85	8.83	75.53	-565.82	669.56	756.00	737.35	18.65	40.541	
4,600.00	4,579.24	4,574.24	4,574.24	13.23	8.95	76.54	-565.82	669.56	752.61	733.68	18.93	39.762	
4,700.00	4,678.26	4,673.26	4,673.26	13.61	9.06	77.57	-565.82	669.56	749.46	730.26	19.21	39.021	
4,800.00	4,777.29	4,772.29	4,772.29	14.00	9.17	78.60	-565.82	669.56	746.56	727.08	19.48	38.315	
4,900.00	4,876.32	4,871.32	4,871.32	14.39	9.29	79.64	-565.82	669.56	743.91	724.15	19.76	37.643	
5,000.00	4,975.34	4,970.34	4,970.34	14.78	9.40	80.69	-565.82	669.56	741.51	721.47	20.04	37.002	
5,100.00	5,074.37	5,078.24	5,078.23	15.18	9.55	81.77	-564.99	670.24	738.95	718.61	20.33	36.339	
5,200.00	5,173.40	5,190.54	5,190.40	15.58	9.74	82.61	-560.91	673.56	734.94	714.30	20.63	35.619	
5,300.00	5,272.43	5,297.06	5,296.56	15.98	9.84	83.16	-554.20	679.04	729.45	708.56	20.89	34.923	
5,400.00	5,371.45	5,396.71	5,395.83	16.38	9.98	83.64	-547.47	684.53	723.77	702.59	21.18	34.165	
5,500.00	5,470.48	5,496.36	5,495.11	16.78	10.13	84.13	-540.74	690.02	718.14	696.65	21.49	33.421	
5,600.00	5,569.51	5,596.01	5,594.38	17.18	10.30	84.63	-534.01	695.51	712.57	690.77	21.80	32.692	
5,700.00	5,668.53	5,695.66	5,693.65	17.59	10.47	85.13	-527.28	701.00	707.05	684.94	22.11	31.979	
5,800.00	5,767.56	5,795.31	5,792.92	17.99	10.66	85.65	-520.56	706.48	701.59	679.16	22.43	31.280	
5,900.00	5,866.59	5,894.96	5,892.19	18.40	10.86	86.17	-513.83	711.97	696.18	673.42	22.75	30.595	
6,000.00	5,965.61	5,994.61	5,991.46	18.81	11.07	86.70	-507.10	717.46	690.83	667.75	23.09	29.924	
6,100.00	6,064.64	6,094.26	6,090.73	19.22	11.29	87.24	-500.37	722.95	685.54	662.12	23.42	29.266	
6,200.00	6,163.67	6,193.91	6,190.01	19.63	11.51	87.78	-493.64	728.44	680.32	656.55	23.77	28.621	
6,300.00	6,262.69	6,293.56	6,289.28	20.05	11.75	88.34	-486.92	733.93	675.16	651.03	24.12	27.988	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 1H - OH - Plan 1 02-14-23											Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+HRGM											Offset Well Error:	1.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
6,400.00	6,361.72	6,393.21	6,388.55	20.46	11.99	88.90	-480.19	739.41	670.06	645.58	24.48	27.368	
6,500.00	6,460.75	6,492.86	6,487.82	20.87	12.24	89.47	-473.46	744.90	665.03	640.17	24.85	26.760	
6,600.00	6,559.77	6,592.51	6,587.09	21.29	12.50	90.06	-466.73	750.39	660.06	634.83	25.23	26.163	
6,700.00	6,658.80	6,692.17	6,686.36	21.70	12.76	90.64	-460.00	755.88	655.16	629.55	25.61	25.578	
6,800.00	6,757.83	6,791.82	6,785.63	22.12	13.03	91.24	-453.28	761.37	650.34	624.33	26.01	25.004	
6,900.00	6,856.85	6,891.47	6,884.91	22.54	13.30	91.85	-446.55	766.85	645.59	619.17	26.41	24.441	
7,000.00	6,955.88	6,991.12	6,984.18	22.95	13.59	92.46	-439.82	772.34	640.91	614.08	26.83	23.888	
7,100.00	7,055.00	7,090.81	7,083.49	23.35	13.87	92.97	-433.09	777.83	636.26	609.05	27.22	23.377	
7,200.00	7,154.50	7,190.64	7,182.95	23.76	14.16	93.15	-426.35	783.33	631.49	603.90	27.59	22.887	
7,300.00	7,254.28	7,290.52	7,282.44	24.14	14.46	93.01	-419.61	788.83	626.53	598.62	27.91	22.444	
7,400.00	7,354.23	7,390.30	7,381.84	24.45	14.76	92.54	-412.87	794.33	621.41	593.22	28.18	22.049	
7,500.00	7,454.23	7,489.94	7,481.10	24.51	15.06	165.51	-406.14	799.82	616.20	587.83	28.38	21.714	
7,600.00	7,554.23	7,589.56	7,580.34	24.55	15.37	164.86	-399.42	805.30	611.07	582.48	28.60	21.370	
7,700.00	7,654.23	7,689.18	7,679.58	24.59	15.68	164.19	-392.69	810.79	606.02	577.21	28.81	21.033	
7,800.00	7,754.23	7,788.80	7,778.82	24.63	16.00	163.51	-385.97	816.28	601.06	572.03	29.03	20.704	
7,900.00	7,854.23	7,888.41	7,878.06	24.67	16.31	162.82	-379.24	821.76	596.18	566.93	29.25	20.383	
8,000.00	7,954.23	7,988.03	7,977.30	24.71	16.63	162.12	-372.51	827.25	591.39	561.92	29.47	20.070	
8,100.00	8,054.23	8,087.65	8,076.55	24.75	16.96	161.41	-365.79	832.74	586.68	557.00	29.68	19.764	
8,200.00	8,154.23	8,187.27	8,175.79	24.79	17.28	160.68	-359.06	838.22	582.08	552.17	29.90	19.465	
8,300.00	8,254.23	8,286.89	8,275.03	24.83	17.61	159.95	-352.34	843.71	577.56	547.44	30.12	19.175	
8,400.00	8,354.23	8,386.51	8,374.27	24.88	17.94	159.20	-345.61	849.19	573.14	542.80	30.34	18.891	
8,500.00	8,454.23	8,486.13	8,473.51	24.92	18.27	158.44	-338.89	854.68	568.83	538.27	30.56	18.615	
8,600.00	8,554.23	8,585.75	8,572.75	24.96	18.61	157.67	-332.16	860.17	564.61	533.83	30.77	18.347	
8,700.00	8,654.23	8,685.37	8,671.99	25.00	18.95	156.89	-325.43	865.65	560.50	529.50	30.99	18.085	
8,800.00	8,754.23	8,784.99	8,771.23	25.04	19.29	156.10	-318.71	871.14	556.49	525.28	31.21	17.831	
8,900.00	8,854.23	8,884.61	8,870.47	25.09	19.63	155.30	-311.98	876.63	552.59	521.16	31.43	17.584	
9,000.00	8,954.23	8,984.23	8,969.71	25.13	19.97	154.48	-305.26	882.11	548.80	517.16	31.64	17.344	
9,100.00	9,054.23	9,083.85	9,068.95	25.17	20.31	153.66	-298.53	887.60	545.13	513.27	31.86	17.110	
9,200.00	9,154.23	9,183.47	9,168.19	25.22	20.66	152.82	-291.80	893.09	541.57	509.49	32.08	16.884	
9,300.00	9,254.23	9,283.09	9,267.44	25.26	21.00	151.97	-285.08	898.57	538.12	505.83	32.29	16.663	
9,400.00	9,354.23	9,382.71	9,366.68	25.30	21.35	151.12	-278.35	904.06	534.80	502.29	32.51	16.450	
9,500.00	9,454.23	9,482.33	9,465.92	25.35	21.70	150.25	-271.63	909.55	531.60	498.87	32.73	16.242	
9,600.00	9,554.23	9,581.95	9,565.16	25.39	22.05	149.37	-264.90	915.03	528.52	495.58	32.95	16.041	
9,700.00	9,654.23	9,681.57	9,664.40	25.43	22.41	148.48	-258.18	920.52	525.57	492.41	33.17	15.846	
9,800.00	9,754.23	9,781.19	9,763.64	25.48	22.76	147.58	-251.45	926.01	522.75	489.36	33.39	15.656	
9,900.00	9,854.23	9,880.81	9,862.88	25.52	23.11	146.67	-244.72	931.49	520.06	486.45	33.61	15.473	
10,000.00	9,954.23	9,980.43	9,962.12	25.57	23.47	145.76	-238.00	936.98	517.50	483.67	33.84	15.295	
10,100.00	10,054.23	10,080.05	10,061.36	25.61	23.83	144.83	-231.27	942.47	515.08	481.02	34.06	15.122	
10,200.00	10,154.23	10,179.67	10,160.60	25.66	24.18	143.90	-224.55	947.95	512.79	478.50	34.29	14.954	
10,300.00	10,254.23	10,279.29	10,259.84	25.70	24.54	142.95	-217.82	953.44	510.65	476.12	34.52	14.792	
10,400.00	10,354.23	10,378.91	10,359.08	25.75	24.90	142.00	-211.09	958.93	508.64	473.88	34.76	14.634	
10,500.00	10,454.23	10,478.53	10,458.33	25.79	25.26	141.05	-204.37	964.41	506.77	471.78	35.00	14.481	
10,600.00	10,554.23	10,578.15	10,557.57	25.84	25.62	140.08	-197.64	969.90	505.05	469.81	35.24	14.332	
10,700.00	10,654.23	10,675.79	10,654.90	25.89	25.97	139.21	-191.61	974.82	503.60	468.14	35.47	14.200	
10,800.00	10,754.23	10,772.79	10,751.79	25.93	26.29	138.70	-188.03	977.74	502.79	467.12	35.67	14.096	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 1H - OH - Plan 1 02-14-23													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft	
Reference				Offset		Semi Major Axis		Highside		Offset Wellbore Center		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
10,900.00	10,854.23	10,870.25	10,849.23	25.98	26.47	138.54	26.03	26.51	138.54	-186.98	978.60	502.57	466.74	35.82	14.028
11,000.00	10,954.23	10,970.25	10,949.23	26.03	26.51	138.54	26.07	26.57	138.54	-186.98	978.60	502.57	466.60	35.96	13.975
11,100.00	11,054.23	11,070.25	11,049.23	26.07	26.57	138.54	26.12	26.62	138.54	-186.98	978.60	502.57	466.46	36.11	13.919
11,200.00	11,154.23	11,170.25	11,149.23	26.12	26.62	138.54	26.17	26.67	138.54	-186.98	978.60	502.57	466.31	36.25	13.863
11,300.00	11,254.23	11,270.25	11,249.23	26.17	26.67	138.54	26.21	26.72	138.54	-186.98	978.60	502.57	466.17	36.40	13.807
11,400.00	11,354.23	11,370.25	11,349.23	26.21	26.72	138.54	26.26	27.40	135.88	-153.02	978.23	493.44	455.56	37.89	13.023
11,500.00	11,454.23	11,599.03	11,574.07	26.26	27.40	135.88	26.18	28.24	-59.02	-52.17	977.13	452.23	411.38	40.85	11.069
11,600.00	11,553.76	11,801.98	11,748.96	26.18	28.24	-59.02	26.06	28.60	-77.92	11.39	976.43	397.18	354.55	42.63	9.316
11,700.00	11,649.51	11,892.52	11,813.32	26.06	28.60	-77.92	25.95	28.70	-88.63	32.60	976.20	351.64	307.39	44.25	7.946
11,800.00	11,737.31	11,920.00	11,830.78	25.95	28.70	-88.63	25.88	28.68	-90.63	29.28	976.24	329.65	282.72	46.93	7.025
11,900.00	11,813.32	11,915.76	11,828.15	25.88	28.68	-90.63	25.88	28.67	-90.02	26.01	976.27	328.69	280.91	47.78	6.880
11,925.54	11,830.43	11,911.58	11,825.53	25.88	28.67	-90.02	25.88	28.60	-86.19	12.85	976.42	336.51	286.27	50.24	6.698
12,000.00	11,874.22	11,894.46	11,814.58	25.88	28.60	-86.19	25.97	28.48	-77.37	-10.31	976.67	367.60	314.77	52.83	6.958
12,100.00	11,917.34	11,863.18	11,793.57	25.97	28.48	-77.37	26.17	28.34	-66.47	-36.53	976.96	413.22	358.96	54.26	7.616
12,200.00	11,940.81	11,825.68	11,766.77	26.17	28.34	-66.47	26.47	28.17	-58.13	-63.05	977.25	465.18	410.35	54.84	8.483
12,300.00	11,945.00	11,784.78	11,735.65	26.47	28.17	-58.13	26.87	28.03	-54.76	-83.81	977.47	525.12	470.20	54.92	9.562
12,400.00	11,945.00	11,750.00	11,707.75	26.87	28.03	-54.76	27.33	27.90	-51.76	-101.47	977.67	592.69	537.98	54.70	10.835
12,500.00	11,945.00	11,717.85	11,680.89	27.33	27.90	-51.76	27.86	27.82	-50.15	-110.61	977.77	666.30	612.03	54.27	12.277
12,600.00	11,945.00	11,700.00	11,665.56	27.86	27.82	-50.15	28.45	27.69	-47.48	-125.23	977.93	744.31	690.44	53.87	13.816
12,700.00	11,945.00	11,669.25	11,638.51	28.45	27.69	-47.48	29.09	27.61	-45.88	-133.63	978.02	826.01	772.59	53.41	15.464
12,800.00	11,945.00	11,650.00	11,621.19	29.09	27.61	-45.88	29.78	27.54	-44.51	-140.63	978.09	910.52	857.54	52.97	17.188
12,900.00	11,945.00	11,632.83	11,605.51	29.78	27.54	-44.51	30.52	27.48	-43.35	-146.32	978.16	997.27	944.70	52.56	18.973
13,000.00	11,945.00	11,617.92	11,591.74	30.52	27.48	-43.35	31.31	27.40	-42.01	-152.69	978.23	1,085.85	1,033.64	52.21	20.797
13,100.00	11,945.00	11,600.00	11,574.99	31.31	27.40	-42.01	32.14	27.40	-42.01	-152.69	978.23	1,175.90	1,124.08	51.82	22.694
13,200.00	11,945.00	11,600.00	11,574.99	32.14	27.40	-42.01	33.01	27.33	-40.75	-158.40	978.29	1,267.06	1,215.52	51.54	24.582
13,300.00	11,945.00	11,582.50	11,558.44	33.01	27.33	-40.75	33.91	27.29	-40.09	-161.27	978.32	1,359.30	1,308.02	51.27	26.511
13,400.00	11,945.00	11,573.05	11,549.45	33.91	27.29	-40.09	34.85	27.20	-38.54	-167.66	978.39	1,452.63	1,401.54	51.09	28.435
13,500.00	11,945.00	11,550.00	11,527.30	34.85	27.20	-38.54	35.82	27.20	-38.54	-167.66	978.39	1,546.22	1,495.38	50.84	30.414
13,600.00	11,945.00	11,550.00	11,527.30	35.82	27.20	-38.54	36.83	27.20	-38.54	-167.66	978.39	1,640.57	1,589.95	50.62	32.409
13,700.00	11,945.00	11,550.00	11,527.30	36.83	27.20	-38.54	37.85	27.20	-38.54	-167.66	978.39	1,735.56	1,685.13	50.43	34.416
13,800.00	11,945.00	11,550.00	11,527.30	37.85	27.20	-38.54	38.91	27.20	-38.54	-167.66	978.39	1,831.08	1,780.82	50.26	36.432
13,900.00	11,945.00	11,550.00	11,527.30	38.91	27.20	-38.54	39.99	27.20	-38.54	-167.66	978.39	1,927.05	1,876.94	50.11	38.455
14,000.00	11,945.00	11,550.00	11,527.30	39.99	27.20	-38.54	41.09	27.11	-37.07	-173.18	978.45	2,022.82	1,972.76	50.05	40.414
14,100.00	11,945.00	11,526.76	11,504.73	41.09	27.11	-37.07	42.21	27.09	-36.78	-174.19	978.46	2,119.26	2,069.31	49.95	42.428
14,200.00	11,945.00	11,522.07	11,500.15	42.21	27.09	-36.78	43.35	27.01	-35.47	-178.41	978.51	2,216.32	2,166.41	49.91	44.409
14,300.00	11,945.00	11,500.00	11,478.48	43.35	27.01	-35.47	44.51	27.01	-35.47	-178.41	978.51	2,313.13	2,263.32	49.82	46.433
14,400.00	11,945.00	11,500.00	11,478.48	44.51	27.01	-35.47	45.68	27.01	-35.47	-178.41	978.51	2,410.21	2,360.47	49.74	48.457
14,500.00	11,945.00	11,500.00	11,478.48	45.68	27.01	-35.47									

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 2H - OH - Plan 1 02-15-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	1.00	1.00	130.85	-566.02	654.56	865.36				
100.00	100.00	95.00	95.00	1.32	1.12	130.85	-566.02	654.56	865.35	862.92	2.43	355.791	
200.00	200.00	195.00	195.00	1.79	1.62	130.85	-566.02	654.56	865.35	861.93	3.41	253.401	
300.00	300.00	295.00	295.00	2.17	2.03	130.85	-566.02	654.56	865.35	861.15	4.20	205.964	
400.00	400.00	395.00	395.00	2.49	2.37	130.85	-566.02	654.56	865.35	860.48	4.86	177.908	
500.00	500.00	495.00	495.00	2.78	2.67	130.85	-566.02	654.56	865.35	859.90	5.45	158.754	
600.00	600.00	595.00	595.00	3.04	2.94	130.85	-566.02	654.56	865.35	859.36	5.98	144.594	
700.00	700.00	695.00	695.00	3.28	3.19	130.85	-566.02	654.56	865.35	858.87	6.48	133.570	
800.00	800.00	795.00	795.00	3.51	3.43	130.85	-566.02	654.56	865.35	858.41	6.94	124.667	
900.00	900.00	895.00	895.00	3.73	3.65	130.85	-566.02	654.56	865.35	857.97	7.38	117.279	
1,000.00	1,000.00	995.00	995.00	3.94	3.86	130.85	-566.02	654.56	865.35	857.55	7.79	111.018	
1,100.00	1,100.00	1,095.00	1,095.00	4.13	4.06	130.85	-566.02	654.56	865.35	857.16	8.19	105.621	
1,200.00	1,200.00	1,195.00	1,195.00	4.32	4.25	130.85	-566.02	654.56	865.35	856.77	8.58	100.905	
1,300.00	1,300.00	1,295.00	1,295.00	4.51	4.44	130.85	-566.02	654.56	865.35	856.40	8.95	96.737	
1,400.00	1,400.00	1,395.00	1,395.00	4.68	4.62	130.85	-566.02	654.56	865.35	856.05	9.30	93.018	
1,500.00	1,500.00	1,495.00	1,495.00	4.86	4.79	130.85	-566.02	654.56	865.35	855.70	9.65	89.672	
1,600.00	1,600.00	1,595.00	1,595.00	5.03	4.96	130.85	-566.02	654.56	865.35	855.36	9.99	86.639	
1,700.00	1,700.00	1,695.00	1,695.00	5.19	5.13	130.85	-566.02	654.56	865.35	855.03	10.32	83.874	
1,800.00	1,800.00	1,795.00	1,795.00	5.35	5.29	130.85	-566.02	654.56	865.35	854.71	10.64	81.339	
1,900.00	1,900.00	1,895.00	1,895.00	5.51	5.45	130.85	-566.02	654.56	865.35	854.39	10.95	79.002	
2,000.00	2,000.00	1,995.00	1,995.00	5.66	5.60	130.85	-566.02	654.56	865.35	854.09	11.26	76.841	
2,100.00	2,100.00	2,095.00	2,095.00	5.81	5.75	130.85	-566.02	654.56	865.35	853.78	11.56	74.832	
2,200.00	2,200.00	2,195.00	2,195.00	5.96	5.90	130.85	-566.02	654.56	865.35	853.49	11.86	72.959	
2,300.00	2,299.98	2,294.98	2,294.98	6.18	6.05	57.33	-566.02	654.56	864.40	852.24	12.17	71.038	
2,400.00	2,399.84	2,394.84	2,394.84	6.40	6.19	57.67	-566.02	654.56	861.59	849.12	12.47	69.115	
2,500.00	2,499.45	2,494.45	2,494.45	6.63	6.33	58.24	-566.02	654.56	856.95	844.19	12.76	67.134	
2,600.00	2,598.70	2,593.70	2,593.70	6.89	6.47	59.04	-566.02	654.56	850.58	837.51	13.07	65.097	
2,700.00	2,697.73	2,692.73	2,692.73	7.09	6.61	59.85	-566.02	654.56	843.45	830.10	13.35	63.171	
2,800.00	2,796.76	2,791.76	2,791.76	7.31	6.74	60.67	-566.02	654.56	836.49	822.85	13.64	61.319	
2,900.00	2,895.78	2,890.78	2,890.78	7.55	6.88	61.50	-566.02	654.56	829.71	815.78	13.94	59.541	
3,000.00	2,994.81	2,989.81	2,989.81	7.81	7.01	62.34	-566.02	654.56	823.11	808.88	14.23	57.839	
3,100.00	3,093.84	3,088.84	3,088.84	8.08	7.14	63.20	-566.02	654.56	816.69	802.17	14.53	56.211	
3,200.00	3,192.86	3,187.86	3,187.86	8.36	7.27	64.07	-566.02	654.56	810.47	795.64	14.83	54.657	
3,300.00	3,291.89	3,286.89	3,286.89	8.66	7.39	64.96	-566.02	654.56	804.43	789.30	15.13	53.176	
3,400.00	3,390.92	3,385.92	3,385.92	8.97	7.52	65.85	-566.02	654.56	798.59	783.16	15.43	51.766	
3,500.00	3,489.94	3,484.94	3,484.94	9.29	7.64	66.76	-566.02	654.56	792.95	777.23	15.73	50.424	
3,600.00	3,588.97	3,583.97	3,583.97	9.61	7.77	67.69	-566.02	654.56	787.52	771.50	16.02	49.149	
3,700.00	3,688.00	3,683.00	3,683.00	9.95	7.89	68.62	-566.02	654.56	782.30	765.98	16.32	47.937	
3,800.00	3,787.02	3,782.02	3,782.02	10.29	8.01	69.57	-566.02	654.56	777.29	760.68	16.61	46.787	
3,900.00	3,886.05	3,881.05	3,881.05	10.64	8.13	70.53	-566.02	654.56	772.50	755.59	16.91	45.694	
4,000.00	3,985.08	3,980.08	3,980.08	11.00	8.25	71.50	-566.02	654.56	767.93	750.73	17.20	44.657	
4,100.00	4,084.10	4,079.10	4,079.10	11.36	8.37	72.48	-566.02	654.56	763.59	746.10	17.48	43.672	
4,200.00	4,183.13	4,178.13	4,178.13	11.72	8.49	73.47	-566.02	654.56	759.48	741.71	17.77	42.737	
4,300.00	4,282.16	4,277.16	4,277.16	12.10	8.60	74.48	-566.02	654.56	755.60	737.55	18.06	41.849	
4,400.00	4,381.18	4,376.18	4,376.18	12.47	8.72	75.49	-566.02	654.56	751.96	733.62	18.34	41.006	
4,500.00	4,480.21	4,475.21	4,475.21	12.85	8.83	76.51	-566.02	654.56	748.56	729.94	18.62	40.204	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 2H - OH - Plan 1 02-15-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
4,600.00	4,579.24	4,574.24	4,574.24	13.23	8.95	77.54	-566.02	654.56	745.41	726.51	18.90	39.442	
4,700.00	4,678.26	4,673.26	4,673.26	13.61	9.06	78.58	-566.02	654.56	742.50	723.32	19.18	38.716	
4,800.00	4,777.29	4,772.29	4,772.29	14.00	9.17	79.63	-566.02	654.56	739.85	720.39	19.46	38.025	
4,900.00	4,876.32	4,871.32	4,871.32	14.39	9.29	80.68	-566.02	654.56	737.44	717.71	19.74	37.367	
5,000.00	4,975.34	4,970.34	4,970.34	14.78	9.40	81.74	-566.02	654.56	735.30	715.28	20.01	36.739	
5,100.00	5,074.37	5,069.37	5,069.37	15.18	9.58	83.08	-564.94	653.58	732.36	712.01	20.35	35.994	
5,200.00	5,173.40	5,221.27	5,221.05	15.58	9.79	84.68	-559.70	648.82	725.66	704.96	20.70	35.063	
5,300.00	5,272.43	5,337.88	5,337.13	15.98	9.99	86.29	-551.48	641.34	715.47	694.44	21.03	34.022	
5,400.00	5,371.45	5,435.73	5,434.44	16.38	10.13	87.70	-543.91	634.46	704.95	683.60	21.35	33.022	
5,500.00	5,470.48	5,533.58	5,531.75	16.78	10.28	89.16	-536.34	627.58	694.88	673.20	21.68	32.046	
5,600.00	5,569.51	5,631.43	5,629.06	17.18	10.45	90.66	-528.77	620.70	685.29	663.25	22.04	31.095	
5,700.00	5,668.53	5,729.28	5,726.38	17.59	10.63	92.20	-521.20	613.83	676.18	653.77	22.41	30.172	
5,800.00	5,767.56	5,827.13	5,823.69	17.99	10.82	93.77	-513.63	606.95	667.60	644.79	22.80	29.276	
5,900.00	5,866.59	5,924.97	5,921.00	18.40	11.03	95.39	-506.06	600.07	659.54	636.32	23.22	28.410	
6,000.00	5,965.61	6,022.82	6,018.32	18.81	11.24	97.04	-498.49	593.19	652.04	628.39	23.65	27.573	
6,100.00	6,064.64	6,120.67	6,115.63	19.22	11.46	98.73	-490.92	586.31	645.11	621.01	24.10	26.768	
6,200.00	6,163.67	6,218.52	6,212.94	19.63	11.69	100.45	-483.35	579.43	638.77	614.20	24.57	25.994	
6,300.00	6,262.69	6,316.37	6,310.25	20.05	11.93	102.20	-475.78	572.55	633.04	607.97	25.07	25.251	
6,400.00	6,361.72	6,414.22	6,407.57	20.46	12.18	103.98	-468.21	565.67	627.94	602.35	25.59	24.542	
6,500.00	6,460.75	6,512.07	6,504.88	20.87	12.44	105.79	-460.65	558.79	623.48	597.35	26.12	23.866	
6,600.00	6,559.77	6,609.92	6,602.19	21.29	12.70	107.62	-453.08	551.91	619.67	592.99	26.68	23.223	
6,700.00	6,658.80	6,707.77	6,699.51	21.70	12.97	109.48	-445.51	545.04	616.53	589.27	27.26	22.615	
6,800.00	6,757.83	6,805.61	6,796.82	22.12	13.25	111.34	-437.94	538.16	614.07	586.21	27.86	22.040	
6,900.00	6,856.85	6,903.46	6,894.13	22.54	13.53	113.22	-430.37	531.28	612.29	583.82	28.48	21.500	
7,000.00	6,955.88	7,001.31	6,991.44	22.95	13.82	115.11	-422.80	524.40	611.21	582.10	29.11	20.995	
7,100.00	7,055.00	7,099.29	7,088.88	23.35	14.12	116.94	-415.22	517.51	610.50	580.77	29.73	20.537	
7,200.00	7,154.50	7,197.78	7,186.84	23.76	14.42	118.50	-407.60	510.59	608.87	578.54	30.33	20.075	
7,300.00	7,254.28	7,296.72	7,285.24	24.14	14.73	119.78	-399.95	503.63	605.99	575.11	30.88	19.624	
7,400.00	7,354.23	7,395.99	7,383.96	24.45	15.04	120.76	-392.27	496.65	601.65	570.28	31.37	19.181	
7,500.00	7,454.23	7,495.43	7,482.86	24.51	15.35	-164.78	-384.58	489.66	596.06	564.35	31.71	18.797	
7,600.00	7,554.23	7,594.88	7,581.76	24.55	15.68	-163.93	-376.88	482.67	590.49	558.43	32.06	18.421	
7,700.00	7,654.23	7,694.33	7,680.67	24.59	16.00	-163.06	-369.19	475.68	585.05	552.65	32.40	18.057	
7,800.00	7,754.23	7,793.79	7,779.58	24.63	16.33	-162.18	-361.50	468.68	579.74	547.00	32.74	17.707	
7,900.00	7,854.23	7,893.24	7,878.48	24.67	16.66	-161.28	-353.80	461.69	574.58	541.50	33.08	17.369	
8,000.00	7,954.23	7,992.69	7,977.39	24.71	17.00	-160.36	-346.11	454.70	569.56	536.14	33.42	17.043	
8,100.00	8,054.23	8,092.14	8,076.30	24.75	17.33	-159.43	-338.42	447.71	564.69	530.94	33.75	16.730	
8,200.00	8,154.23	8,191.60	8,175.21	24.79	17.67	-158.48	-330.72	440.72	559.97	525.89	34.08	16.430	
8,300.00	8,254.23	8,291.05	8,274.11	24.83	18.02	-157.52	-323.03	433.73	555.42	521.00	34.41	16.141	
8,400.00	8,354.23	8,390.50	8,373.02	24.88	18.36	-156.54	-315.34	426.73	551.02	516.28	34.74	15.863	
8,500.00	8,454.23	8,489.95	8,471.93	24.92	18.71	-155.55	-307.64	419.74	546.78	511.73	35.06	15.597	
8,600.00	8,554.23	8,599.40	8,579.84	24.96	19.06	-154.54	-299.95	412.75	542.72	507.34	35.37	15.343	
8,700.00	8,654.23	8,698.86	8,686.74	25.00	19.41	-153.52	-292.26	405.76	538.82	503.14	35.69	15.099	
8,800.00	8,754.23	8,798.31	8,786.65	25.04	19.77	-152.48	-284.56	398.77	535.10	499.11	35.99	14.866	
8,900.00	8,854.23	8,897.76	8,887.56	25.09	20.12	-151.43	-276.87	391.78	531.56	495.27	36.30	14.644	
9,000.00	8,954.23	8,997.21	8,986.47	25.13	20.48	-150.36	-269.18	384.78	528.21	491.61	36.60	14.432	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 2H - OH - Plan 1 02-15-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
9,100.00	9,054.23	9,086.67	9,065.37	25.17	20.84	-149.28	-261.48	377.79	525.04	488.14	36.90	14.230	
9,200.00	9,154.23	9,186.12	9,164.28	25.22	21.20	-148.19	-253.79	370.80	522.06	484.87	37.19	14.037	
9,300.00	9,254.23	9,285.57	9,263.19	25.26	21.57	-147.09	-246.10	363.81	519.28	481.79	37.48	13.854	
9,400.00	9,354.23	9,385.02	9,362.09	25.30	21.93	-145.97	-238.40	356.82	516.69	478.92	37.77	13.679	
9,500.00	9,454.23	9,484.47	9,461.00	25.35	22.30	-144.85	-230.71	349.82	514.30	476.24	38.06	13.514	
9,600.00	9,554.23	9,583.93	9,559.91	25.39	22.66	-143.71	-223.02	342.83	512.11	473.77	38.34	13.357	
9,700.00	9,654.23	9,683.38	9,658.82	25.43	23.03	-142.57	-215.32	335.84	510.13	471.50	38.62	13.208	
9,800.00	9,754.23	9,782.63	9,757.53	25.48	23.39	-141.42	-207.65	328.87	508.35	469.46	38.89	13.072	
9,900.00	9,854.23	9,879.66	9,854.20	25.52	23.75	-140.49	-201.53	323.31	507.06	467.94	39.12	12.961	
10,000.00	9,954.23	9,977.15	9,951.55	25.57	24.07	-139.93	-197.83	319.94	506.35	467.03	39.32	12.879	
10,100.00	10,054.23	10,075.61	10,050.00	25.61	24.27	-139.74	-196.58	318.80	506.12	466.66	39.46	12.825	
10,133.59	10,087.82	10,108.44	10,082.82	25.63	24.28	-139.74	-196.58	318.80	506.12	466.63	39.50	12.815	
10,200.00	10,154.23	10,174.85	10,149.23	25.66	24.32	-139.74	-196.58	318.80	506.12	466.54	39.58	12.786	
10,300.00	10,254.23	10,274.85	10,249.23	25.70	24.37	-139.74	-196.58	318.80	506.12	466.40	39.72	12.743	
10,400.00	10,354.23	10,374.85	10,349.23	25.75	24.43	-139.74	-196.58	318.80	506.12	466.27	39.85	12.700	
10,500.00	10,454.23	10,474.85	10,449.23	25.79	24.48	-139.74	-196.58	318.80	506.12	466.14	39.98	12.658	
10,600.00	10,554.23	10,574.85	10,549.23	25.84	24.54	-139.74	-196.58	318.80	506.12	466.00	40.12	12.616	
10,700.00	10,654.23	10,674.85	10,649.23	25.89	24.59	-139.74	-196.58	318.80	506.12	465.87	40.25	12.574	
10,800.00	10,754.23	10,774.85	10,749.23	25.93	24.64	-139.74	-196.58	318.80	506.12	465.74	40.39	12.532	
10,900.00	10,854.23	10,874.85	10,849.23	25.98	24.70	-139.74	-196.58	318.80	506.12	465.60	40.52	12.491	
11,000.00	10,954.23	10,974.85	10,949.23	26.03	24.76	-139.74	-196.58	318.80	506.12	465.47	40.65	12.449	
11,100.00	11,054.23	11,074.85	11,049.23	26.07	24.81	-139.74	-196.58	318.80	506.12	465.33	40.79	12.408	
11,200.00	11,154.23	11,174.85	11,149.23	26.12	24.87	-139.74	-196.58	318.80	506.12	465.20	40.92	12.368	
11,300.00	11,254.23	11,274.85	11,249.23	26.17	24.92	-139.74	-196.58	318.80	506.12	465.06	41.06	12.327	
11,400.00	11,354.23	11,374.85	11,349.23	26.21	24.98	-139.74	-196.58	318.80	506.12	464.93	41.20	12.286	
11,500.00	11,454.23	11,607.70	11,577.84	26.26	25.65	-136.95	-160.85	318.41	496.62	453.74	42.89	11.580	
11,600.00	11,553.76	11,791.26	11,736.70	26.18	26.39	57.50	-70.55	317.42	454.91	409.98	44.94	10.124	
11,700.00	11,649.51	11,900.16	11,814.92	26.06	26.80	78.17	4.92	316.60	399.78	353.50	46.28	8.638	
11,800.00	11,737.31	11,926.78	11,831.70	25.95	26.89	88.70	25.58	316.37	354.27	307.68	46.60	7.603	
11,900.00	11,813.32	11,921.94	11,828.73	25.88	26.87	90.62	21.77	316.42	332.20	285.14	47.06	7.059	
11,926.48	11,831.04	11,917.46	11,825.94	25.88	26.86	89.98	18.25	316.45	331.18	283.94	47.24	7.011	CC, ES, SF
12,000.00	11,874.22	11,900.00	11,814.82	25.88	26.80	86.15	4.80	316.60	338.73	291.05	47.68	7.104	
12,100.00	11,917.34	11,868.62	11,793.82	25.97	26.68	77.42	-18.52	316.86	369.30	321.28	48.02	7.691	
12,200.00	11,940.81	11,830.87	11,766.93	26.17	26.54	66.62	-44.99	317.15	414.38	366.46	47.91	8.649	
12,300.00	11,945.00	11,789.77	11,735.73	26.47	26.38	58.33	-71.73	317.44	465.84	418.36	47.47	9.813	
12,400.00	11,945.00	11,750.00	11,703.79	26.87	26.22	54.50	-95.42	317.70	525.35	478.40	46.95	11.190	
12,500.00	11,945.00	11,722.54	11,680.81	27.33	26.11	51.95	-110.45	317.86	592.53	546.13	46.39	12.772	
12,600.00	11,945.00	11,700.00	11,661.43	27.86	26.02	49.92	-121.95	317.99	665.75	619.87	45.88	14.511	
12,700.00	11,945.00	11,673.71	11,638.27	28.45	25.92	47.66	-134.40	318.12	743.59	698.11	45.47	16.353	
12,800.00	11,945.00	11,650.00	11,616.92	29.09	25.82	45.70	-144.70	318.23	825.09	779.96	45.13	18.284	
12,900.00	11,945.00	11,650.00	11,616.92	29.78	25.82	45.70	-144.70	318.23	909.63	864.90	44.73	20.337	
13,000.00	11,945.00	11,622.15	11,591.32	30.52	25.71	43.52	-155.66	318.35	996.00	951.46	44.54	22.363	
13,100.00	11,945.00	11,600.00	11,570.60	31.31	25.62	41.87	-163.48	318.44	1,084.52	1,040.16	44.36	24.447	
13,200.00	11,945.00	11,600.00	11,570.60	32.14	25.62	41.87	-163.48	318.44	1,174.34	1,130.21	44.13	26.612	
13,300.00	11,945.00	11,600.00	11,570.60	33.01	25.62	41.87	-163.48	318.44	1,265.69	1,221.75	43.94	28.806	
13,400.00	11,945.00	11,577.09	11,548.87	33.91	25.53	40.25	-170.72	318.52	1,357.62	1,313.75	43.87	30.946	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 2H - OH - Plan 1 02-15-23													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)				
13,500.00	11,945.00	11,568.52	11,540.67	34.85	25.50	39.66	-173.20	318.55	1,450.62	1,406.85	43.77	33.143		
13,600.00	11,945.00	11,550.00	11,522.82	35.82	25.43	38.44	-178.15	318.60	1,544.49	1,500.77	43.72	35.324		
13,700.00	11,945.00	11,550.00	11,522.82	36.83	25.43	38.44	-178.15	318.60	1,638.72	1,595.09	43.63	37.558		
13,800.00	11,945.00	11,550.00	11,522.82	37.85	25.43	38.44	-178.15	318.60	1,733.59	1,690.03	43.56	39.798		
13,900.00	11,945.00	11,550.00	11,522.82	38.91	25.43	38.44	-178.15	318.60	1,829.02	1,785.51	43.50	42.043		
14,000.00	11,945.00	11,550.00	11,522.82	39.99	25.43	38.44	-178.15	318.60	1,924.90	1,881.44	43.46	44.290		
14,100.00	11,945.00	11,550.00	11,522.82	41.09	25.43	38.44	-178.15	318.60	2,021.19	1,977.76	43.43	46.537		
14,200.00	11,945.00	11,525.92	11,499.40	42.21	25.34	36.92	-183.72	318.66	2,117.18	2,073.71	43.47	48.699		
14,300.00	11,945.00	11,521.55	11,495.12	43.35	25.32	36.66	-184.62	318.67	2,213.87	2,170.39	43.47	50.925		
14,400.00	11,945.00	11,500.00	11,473.94	44.51	25.25	35.39	-188.60	318.71	2,311.13	2,267.61	43.52	53.104		
14,500.00	11,945.00	11,500.00	11,473.94	45.68	25.25	35.39	-188.60	318.71	2,408.15	2,364.62	43.52	55.331		

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 3H - OH - Plan 1 02-15-23											Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	1.00 usft
Reference	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)		Offset (usft)	+N/S (usft)	+E/W (usft)	Between Centers (usft)			
0.00	0.00	0.00	0.00	1.00	1.00	-147.84	-1,024.92	-644.34	1,210.64			
100.00	100.00	96.00	96.00	1.32	1.12	-147.84	-1,024.92	-644.34	1,210.63	1,208.20	2.43	497.285
200.00	200.00	196.00	196.00	1.79	1.63	-147.84	-1,024.92	-644.34	1,210.63	1,207.21	3.42	353.858
300.00	300.00	296.00	296.00	2.17	2.04	-147.84	-1,024.92	-644.34	1,210.63	1,206.43	4.21	287.862
400.00	400.00	396.00	396.00	2.49	2.38	-147.84	-1,024.92	-644.34	1,210.63	1,205.77	4.87	248.721
500.00	500.00	496.00	496.00	2.78	2.68	-147.84	-1,024.92	-644.34	1,210.63	1,205.18	5.45	221.977
600.00	600.00	596.00	596.00	3.04	2.95	-147.84	-1,024.92	-644.34	1,210.63	1,204.65	5.99	202.198
700.00	700.00	696.00	696.00	3.28	3.20	-147.84	-1,024.92	-644.34	1,210.63	1,204.15	6.48	186.794
800.00	800.00	796.00	796.00	3.51	3.43	-147.84	-1,024.92	-644.34	1,210.63	1,203.69	6.94	174.352
900.00	900.00	896.00	896.00	3.73	3.65	-147.84	-1,024.92	-644.34	1,210.63	1,203.25	7.38	164.026
1,000.00	1,000.00	996.00	996.00	3.94	3.86	-147.84	-1,024.92	-644.34	1,210.63	1,202.84	7.80	155.274
1,100.00	1,100.00	1,096.00	1,096.00	4.13	4.06	-147.84	-1,024.92	-644.34	1,210.63	1,202.44	8.19	147.729
1,200.00	1,200.00	1,196.00	1,196.00	4.32	4.25	-147.84	-1,024.92	-644.34	1,210.63	1,202.06	8.58	141.136
1,300.00	1,300.00	1,296.00	1,296.00	4.51	4.44	-147.84	-1,024.92	-644.34	1,210.63	1,201.69	8.95	135.309
1,400.00	1,400.00	1,396.00	1,396.00	4.68	4.62	-147.84	-1,024.92	-644.34	1,210.63	1,201.33	9.30	130.109
1,500.00	1,500.00	1,496.00	1,496.00	4.86	4.79	-147.84	-1,024.92	-644.34	1,210.63	1,200.98	9.65	125.429
1,600.00	1,600.00	1,596.00	1,596.00	5.03	4.96	-147.84	-1,024.92	-644.34	1,210.63	1,200.64	9.99	121.189
1,700.00	1,700.00	1,696.00	1,696.00	5.19	5.13	-147.84	-1,024.92	-644.34	1,210.63	1,200.32	10.32	117.322
1,800.00	1,800.00	1,796.00	1,796.00	5.35	5.29	-147.84	-1,024.92	-644.34	1,210.63	1,199.99	10.64	113.776
1,900.00	1,900.00	1,896.00	1,896.00	5.51	5.45	-147.84	-1,024.92	-644.34	1,210.63	1,199.68	10.96	110.510
2,000.00	2,000.00	1,996.00	1,996.00	5.66	5.60	-147.84	-1,024.92	-644.34	1,210.63	1,199.37	11.26	107.486
2,100.00	2,100.00	2,096.00	2,096.00	5.81	5.76	-147.84	-1,024.92	-644.34	1,210.63	1,199.07	11.57	104.677
2,200.00	2,200.00	2,196.00	2,196.00	5.96	5.90	-147.84	-1,024.92	-644.34	1,210.63	1,198.77	11.86	102.058
2,300.00	2,299.98	2,295.98	2,295.98	6.18	6.05	138.56	-1,024.92	-644.34	1,211.94	1,199.75	12.19	99.400
2,400.00	2,399.84	2,395.84	2,395.84	6.40	6.19	138.67	-1,024.92	-644.34	1,215.87	1,203.35	12.52	97.131
2,500.00	2,499.45	2,495.45	2,495.45	6.63	6.34	138.85	-1,024.92	-644.34	1,222.44	1,209.58	12.85	95.116
2,600.00	2,598.70	2,594.70	2,594.70	6.89	6.47	139.10	-1,024.92	-644.34	1,231.66	1,218.46	13.20	93.315
2,700.00	2,697.73	2,693.73	2,693.73	7.09	6.61	139.52	-1,024.92	-644.34	1,242.26	1,228.74	13.52	91.901
2,800.00	2,796.76	2,792.76	2,792.76	7.31	6.74	139.93	-1,024.92	-644.34	1,252.92	1,239.07	13.85	90.479
2,900.00	2,895.78	2,891.78	2,891.78	7.55	6.88	140.34	-1,024.92	-644.34	1,263.65	1,249.46	14.19	89.051
3,000.00	2,994.81	2,990.81	2,990.81	7.81	7.01	140.74	-1,024.92	-644.34	1,274.43	1,259.89	14.54	87.625
3,100.00	3,093.84	3,089.84	3,089.84	8.08	7.14	141.13	-1,024.92	-644.34	1,285.28	1,270.37	14.91	86.208
3,200.00	3,192.86	3,188.86	3,188.86	8.36	7.27	141.51	-1,024.92	-644.34	1,296.19	1,280.90	15.28	84.806
3,300.00	3,291.89	3,287.89	3,287.89	8.66	7.39	141.89	-1,024.92	-644.34	1,307.15	1,291.48	15.67	83.424
3,400.00	3,390.92	3,386.92	3,386.92	8.97	7.52	142.26	-1,024.92	-644.34	1,318.17	1,302.11	16.06	82.067
3,500.00	3,489.94	3,485.94	3,485.94	9.29	7.64	142.63	-1,024.92	-644.34	1,329.24	1,312.78	16.46	80.739
3,600.00	3,588.97	3,584.97	3,584.97	9.61	7.77	142.99	-1,024.92	-644.34	1,340.37	1,323.49	16.87	79.440
3,700.00	3,688.00	3,684.00	3,684.00	9.95	7.89	143.34	-1,024.92	-644.34	1,351.55	1,334.26	17.29	78.174
3,800.00	3,787.02	3,783.02	3,783.02	10.29	8.01	143.69	-1,024.92	-644.34	1,362.77	1,345.06	17.71	76.942
3,900.00	3,886.05	3,882.05	3,882.05	10.64	8.13	144.03	-1,024.92	-644.34	1,374.05	1,355.91	18.14	75.745
4,000.00	3,985.08	3,981.08	3,981.08	11.00	8.25	144.37	-1,024.92	-644.34	1,385.38	1,366.80	18.58	74.583
4,100.00	4,084.10	4,080.10	4,080.10	11.36	8.37	144.70	-1,024.92	-644.34	1,396.75	1,377.73	19.01	73.455
4,200.00	4,183.13	4,179.13	4,179.13	11.72	8.49	145.03	-1,024.92	-644.34	1,408.17	1,388.71	19.46	72.363
4,300.00	4,282.16	4,278.16	4,278.16	12.10	8.60	145.35	-1,024.92	-644.34	1,419.63	1,399.72	19.91	71.306
4,400.00	4,381.18	4,377.18	4,377.18	12.47	8.72	145.66	-1,024.92	-644.34	1,431.14	1,410.77	20.36	70.282
4,500.00	4,480.21	4,476.21	4,476.21	12.85	8.83	145.98	-1,024.92	-644.34	1,442.69	1,421.87	20.82	69.292

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 3H - OH - Plan 1 02-15-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
4,600.00	4,579.24	4,575.24	4,575.24	13.23	8.95	146.28	-1,024.92	-644.34	1,454.28	1,432.99	21.28	68.335	
4,700.00	4,678.26	4,674.26	4,674.26	13.61	9.06	146.58	-1,024.92	-644.34	1,465.91	1,444.16	21.75	67.409	
4,800.00	4,777.29	4,773.29	4,773.29	14.00	9.17	146.88	-1,024.92	-644.34	1,477.58	1,455.36	22.21	66.514	
4,900.00	4,876.32	4,872.32	4,872.32	14.39	9.29	147.17	-1,024.92	-644.34	1,489.29	1,466.60	22.69	65.649	
5,000.00	4,975.34	4,971.34	4,971.34	14.78	9.40	147.46	-1,024.92	-644.34	1,501.03	1,477.87	23.16	64.813	
5,100.00	5,074.37	5,138.43	5,138.38	15.18	9.66	147.98	-1,021.78	-643.18	1,511.23	1,487.41	23.82	63.441	
5,200.00	5,173.40	5,333.89	5,333.13	15.58	10.02	148.74	-1,006.70	-637.58	1,515.45	1,490.90	24.55	61.723	
5,300.00	5,272.43	5,514.59	5,511.83	15.98	10.39	149.61	-981.74	-628.33	1,513.54	1,488.27	25.27	59.904	
5,400.00	5,371.45	5,613.55	5,609.29	16.38	10.57	150.13	-965.62	-622.36	1,509.47	1,483.64	25.84	58.426	
5,500.00	5,470.48	5,712.52	5,706.76	16.78	10.77	150.65	-949.50	-616.38	1,505.54	1,479.11	26.42	56.978	
5,600.00	5,569.51	5,811.49	5,804.22	17.18	10.98	151.17	-933.39	-610.41	1,501.72	1,474.70	27.03	55.563	
5,700.00	5,668.53	5,910.45	5,901.68	17.59	11.21	151.70	-917.27	-604.43	1,498.04	1,470.39	27.65	54.185	
5,800.00	5,767.56	6,009.42	5,999.14	17.99	11.45	152.22	-901.15	-598.46	1,494.48	1,466.20	28.28	52.845	
5,900.00	5,866.59	6,108.39	6,096.61	18.40	11.70	152.75	-885.04	-592.49	1,491.06	1,462.13	28.93	51.545	
6,000.00	5,965.61	6,207.35	6,194.07	18.81	11.96	153.29	-868.92	-586.51	1,487.76	1,458.17	29.59	50.285	
6,100.00	6,064.64	6,306.32	6,291.53	19.22	12.24	153.82	-852.80	-580.54	1,484.60	1,454.34	30.26	49.067	
6,200.00	6,163.67	6,405.29	6,388.99	19.63	12.53	154.36	-836.69	-574.56	1,481.56	1,450.63	30.94	47.889	
6,300.00	6,262.69	6,504.25	6,486.46	20.05	12.82	154.90	-820.57	-568.59	1,478.66	1,447.04	31.63	46.753	
6,400.00	6,361.72	6,603.22	6,583.92	20.46	13.13	155.44	-804.45	-562.61	1,475.90	1,443.57	32.33	45.658	
6,500.00	6,460.75	6,702.19	6,681.38	20.87	13.44	155.98	-788.34	-556.64	1,473.27	1,440.23	33.03	44.603	
6,600.00	6,559.77	6,801.15	6,778.84	21.29	13.76	156.52	-772.22	-550.66	1,470.77	1,437.02	33.74	43.587	
6,700.00	6,658.80	6,900.12	6,876.31	21.70	14.09	157.07	-756.10	-544.69	1,468.41	1,433.94	34.46	42.609	
6,800.00	6,757.83	6,999.09	6,973.77	22.12	14.42	157.62	-739.99	-538.72	1,466.18	1,431.00	35.19	41.669	
6,900.00	6,856.85	7,098.05	7,071.23	22.54	14.76	158.17	-723.87	-532.74	1,464.09	1,428.18	35.92	40.765	
7,000.00	6,955.88	7,197.02	7,168.69	22.95	15.11	158.72	-707.75	-526.77	1,462.14	1,425.50	36.65	39.897	
7,100.00	7,055.00	7,296.00	7,266.18	23.35	15.46	159.25	-691.63	-520.79	1,459.67	1,422.30	37.36	39.065	
7,200.00	7,154.50	7,395.02	7,363.69	23.76	15.82	159.71	-675.51	-514.81	1,454.26	1,416.17	38.09	38.180	
7,300.00	7,254.28	7,493.97	7,461.13	24.14	16.18	160.11	-659.40	-508.84	1,445.69	1,406.92	38.78	37.283	
7,400.00	7,354.23	7,592.71	7,558.37	24.45	16.55	160.45	-643.32	-502.88	1,433.95	1,394.54	39.40	36.391	
7,500.00	7,454.23	7,691.21	7,655.38	24.51	16.92	-125.56	-627.27	-496.93	1,419.68	1,379.88	39.80	35.672	
7,600.00	7,554.23	7,789.69	7,752.36	24.55	17.29	-125.16	-611.24	-490.99	1,405.26	1,365.09	40.17	34.979	
7,700.00	7,654.23	7,888.17	7,849.34	24.59	17.67	-124.76	-595.20	-485.04	1,390.91	1,350.36	40.55	34.300	
7,800.00	7,754.23	7,986.65	7,946.33	24.63	18.05	-124.35	-579.16	-479.10	1,376.63	1,335.70	40.93	33.635	
7,900.00	7,854.23	8,085.13	8,043.31	24.67	18.43	-123.93	-563.13	-473.15	1,362.42	1,321.12	41.30	32.985	
8,000.00	7,954.23	8,183.61	8,140.29	24.71	18.82	-123.50	-547.09	-467.21	1,348.29	1,306.61	41.68	32.348	
8,100.00	8,054.23	8,282.09	8,237.28	24.75	19.21	-123.06	-531.05	-461.26	1,334.23	1,292.17	42.06	31.725	
8,200.00	8,154.23	8,380.57	8,334.26	24.79	19.60	-122.62	-515.01	-455.32	1,320.25	1,277.82	42.43	31.116	
8,300.00	8,254.23	8,479.05	8,431.24	24.83	19.99	-122.16	-498.98	-449.37	1,306.35	1,263.55	42.80	30.521	
8,400.00	8,354.23	8,577.53	8,528.23	24.88	20.39	-121.69	-482.94	-443.43	1,292.54	1,249.37	43.17	29.940	
8,500.00	8,454.23	8,676.01	8,625.21	24.92	20.79	-121.22	-466.90	-437.48	1,278.81	1,235.27	43.54	29.371	
8,600.00	8,554.23	8,774.49	8,722.20	24.96	21.19	-120.73	-450.86	-431.54	1,265.17	1,221.27	43.90	28.817	
8,700.00	8,654.23	8,872.97	8,819.18	25.00	21.59	-120.24	-434.83	-425.59	1,251.63	1,207.36	44.27	28.275	
8,800.00	8,754.23	8,971.45	8,916.16	25.04	22.00	-119.73	-418.79	-419.65	1,238.18	1,193.55	44.63	27.746	
8,900.00	8,854.23	9,069.93	9,013.15	25.09	22.40	-119.21	-402.75	-413.70	1,224.83	1,179.85	44.98	27.230	
9,000.00	8,954.23	9,168.42	9,110.13	25.13	22.81	-118.68	-386.71	-407.76	1,211.58	1,166.25	45.33	26.727	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 3H - OH - Plan 1 02-15-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
9,100.00	9,054.23	9,266.90	9,207.11	25.17	23.22	-118.14	-370.68	-401.81	1,198.43	1,152.75	45.68	26.236	
9,200.00	9,154.23	9,365.38	9,304.10	25.22	23.64	-117.59	-354.64	-395.87	1,185.40	1,139.38	46.02	25.758	
9,300.00	9,254.23	9,463.86	9,401.08	25.26	24.05	-117.02	-338.60	-389.92	1,172.47	1,126.12	46.36	25.292	
9,400.00	9,354.23	9,562.34	9,498.06	25.30	24.46	-116.45	-322.56	-383.98	1,159.67	1,112.98	46.69	24.838	
9,500.00	9,454.23	9,660.82	9,595.05	25.35	24.88	-115.86	-306.53	-378.03	1,146.98	1,099.96	47.02	24.396	
9,600.00	9,554.23	9,759.30	9,692.03	25.39	25.30	-115.25	-290.49	-372.09	1,134.42	1,087.08	47.34	23.965	
9,700.00	9,654.23	9,857.78	9,789.02	25.43	25.71	-114.64	-274.45	-366.14	1,121.98	1,074.33	47.65	23.547	
9,800.00	9,754.23	9,956.26	9,886.00	25.48	26.13	-114.01	-258.41	-360.20	1,109.68	1,061.72	47.96	23.140	
9,900.00	9,854.23	10,048.21	9,976.57	25.52	26.52	-113.41	-243.54	-354.68	1,097.61	1,049.39	48.22	22.763	
10,000.00	9,954.23	10,126.39	10,053.85	25.57	26.85	-112.96	-232.41	-350.56	1,087.09	1,038.67	48.42	22.452	
10,100.00	10,054.23	10,200.00	10,126.87	25.61	27.16	-112.60	-223.75	-347.35	1,078.55	1,029.96	48.59	22.197	
10,200.00	10,154.23	10,284.46	10,210.91	25.66	27.49	-112.27	-215.97	-344.47	1,071.91	1,023.12	48.79	21.970	
10,300.00	10,254.23	10,364.10	10,290.36	25.70	27.78	-112.05	-210.78	-342.54	1,067.20	1,018.25	48.95	21.802	
10,400.00	10,354.23	10,443.99	10,370.18	25.75	28.04	-111.92	-207.65	-341.38	1,064.39	1,015.30	49.09	21.683	
10,500.00	10,454.23	10,524.05	10,450.23	25.79	28.23	-111.88	-206.60	-340.99	1,063.45	1,014.26	49.19	21.620	
10,600.00	10,554.23	10,624.05	10,550.23	25.84	28.27	-111.88	-206.60	-340.99	1,063.45	1,014.17	49.28	21.579	
10,700.00	10,654.23	10,724.05	10,650.23	25.89	28.32	-111.88	-206.60	-340.99	1,063.45	1,014.07	49.39	21.534	
10,800.00	10,754.23	10,824.05	10,750.23	25.93	28.37	-111.88	-206.60	-340.99	1,063.45	1,013.96	49.49	21.489	
10,900.00	10,854.23	10,924.05	10,850.23	25.98	28.42	-111.88	-206.60	-340.99	1,063.45	1,013.86	49.59	21.444	
11,000.00	10,954.23	11,024.05	10,950.23	26.03	28.47	-111.88	-206.60	-340.99	1,063.45	1,013.76	49.70	21.399	
11,100.00	11,054.23	11,124.05	11,050.23	26.07	28.52	-111.88	-206.60	-340.99	1,063.45	1,013.65	49.80	21.355	
11,200.00	11,154.23	11,224.05	11,150.23	26.12	28.57	-111.88	-206.60	-340.99	1,063.45	1,013.55	49.90	21.310	
11,300.00	11,254.23	11,324.05	11,250.23	26.17	28.62	-111.88	-206.60	-340.99	1,063.45	1,013.44	50.01	21.265	
11,400.00	11,354.23	11,424.05	11,350.23	26.21	28.67	-111.88	-206.60	-340.99	1,063.45	1,013.34	50.11	21.222	
11,500.00	11,454.23	11,659.56	11,581.33	26.26	29.52	-110.02	-169.98	-341.39	1,058.88	1,008.13	50.75	20.866	
11,600.00	11,553.76	11,863.89	11,755.89	26.18	30.55	78.80	-65.87	-342.53	1,039.68	988.88	50.80	20.464	
11,700.00	11,649.51	11,952.90	11,818.24	26.06	30.95	86.02	-2.47	-343.22	1,016.49	966.24	50.25	20.227	
11,800.00	11,737.31	11,978.87	11,834.50	25.95	31.06	89.58	17.77	-343.44	999.25	949.84	49.42	20.220	SF
11,900.00	11,813.32	11,973.50	11,831.21	25.88	31.04	90.21	13.53	-343.40	991.44	943.02	48.43	20.473	
11,928.63	11,832.43	11,968.48	11,828.10	25.88	31.02	89.98	9.58	-343.35	991.04	942.91	48.13	20.589	CC, ES
12,000.00	11,874.22	11,950.00	11,816.36	25.88	30.94	88.66	-4.69	-343.20	993.44	946.05	47.38	20.966	
12,100.00	11,917.34	11,919.45	11,795.97	25.97	30.80	85.76	-27.43	-342.95	1,004.05	957.65	46.40	21.638	
12,200.00	11,940.81	11,881.45	11,768.96	26.17	30.63	81.82	-54.14	-342.66	1,021.25	975.73	45.53	22.431	
12,300.00	11,945.00	11,840.14	11,737.66	26.47	30.43	78.40	-81.09	-342.36	1,042.96	998.18	44.79	23.288	
12,400.00	11,945.00	11,800.00	11,705.46	26.87	30.24	76.63	-105.04	-342.10	1,070.63	1,026.44	44.19	24.228	
12,500.00	11,945.00	11,772.59	11,682.54	27.33	30.10	75.38	-120.07	-341.94	1,104.89	1,061.13	43.77	25.244	
12,600.00	11,945.00	11,750.00	11,663.13	27.86	29.98	74.34	-131.63	-341.81	1,145.58	1,102.10	43.48	26.346	
12,700.00	11,945.00	11,723.55	11,639.85	28.45	29.85	73.10	-144.17	-341.68	1,192.26	1,148.95	43.31	27.528	
12,800.00	11,945.00	11,700.00	11,618.65	29.09	29.73	71.98	-154.43	-341.56	1,244.49	1,201.25	43.23	28.784	
12,900.00	11,945.00	11,700.00	11,618.65	29.78	29.73	71.98	-154.43	-341.56	1,301.85	1,258.55	43.29	30.070	
13,000.00	11,945.00	11,671.80	11,592.75	30.52	29.59	70.64	-165.55	-341.44	1,363.37	1,320.03	43.34	31.454	
13,100.00	11,945.00	11,650.00	11,572.36	31.31	29.48	69.59	-173.27	-341.36	1,429.10	1,385.65	43.45	32.892	
13,200.00	11,945.00	11,650.00	11,572.36	32.14	29.48	69.59	-173.27	-341.36	1,498.21	1,454.58	43.63	34.340	
13,300.00	11,945.00	11,650.00	11,572.36	33.01	29.48	69.59	-173.27	-341.36	1,570.65	1,526.82	43.83	35.839	
13,400.00	11,945.00	11,626.61	11,550.17	33.91	29.36	68.48	-180.68	-341.28	1,645.43	1,601.43	43.99	37.403	
13,500.00	11,945.00	11,618.02	11,541.95	34.85	29.32	68.07	-183.17	-341.25	1,722.78	1,678.60	44.19	38.986	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 3H - OH - Plan 1 02-15-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
13,600.00	11,945.00	11,600.00	11,524.59	35.82	29.23	67.21	-188.00	-341.20	1,802.35	1,757.97	44.37	40.617	
13,700.00	11,945.00	11,600.00	11,524.59	36.83	29.23	67.21	-188.00	-341.20	1,883.56	1,838.98	44.59	42.245	
13,800.00	11,945.00	11,600.00	11,524.59	37.85	29.23	67.21	-188.00	-341.20	1,966.51	1,921.71	44.80	43.899	
13,900.00	11,945.00	11,600.00	11,524.59	38.91	29.23	67.21	-188.00	-341.20	2,050.98	2,005.98	45.00	45.575	
14,000.00	11,945.00	11,600.00	11,524.59	39.99	29.23	67.21	-188.00	-341.20	2,136.79	2,091.59	45.20	47.271	
14,100.00	11,945.00	11,580.04	11,505.19	41.09	29.14	66.26	-192.71	-341.14	2,223.38	2,178.00	45.38	48.994	
14,200.00	11,945.00	11,575.32	11,500.59	42.21	29.11	66.04	-193.72	-341.13	2,311.22	2,265.65	45.57	50.721	
14,300.00	11,945.00	11,570.94	11,496.31	43.35	29.09	65.83	-194.63	-341.12	2,399.97	2,354.22	45.75	52.458	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 318H - OH - Plan 1 04-26-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference	Offset			Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	1.00	1.00	-90.86	-0.45	-30.00	30.00				
100.00	100.00	100.00	100.00	1.32	1.32	-90.86	-0.45	-30.00	30.00	27.37	2.63	11.389	
200.00	200.00	200.00	200.00	1.79	1.79	-90.86	-0.45	-30.00	30.00	26.42	3.58	8.374	
300.00	300.00	300.00	300.00	2.17	2.17	-90.86	-0.45	-30.00	30.00	25.67	4.33	6.921	
400.00	400.00	400.00	400.00	2.49	2.49	-90.86	-0.45	-30.00	30.00	25.02	4.98	6.025	
500.00	500.00	500.00	500.00	2.78	2.78	-90.86	-0.45	-30.00	30.00	24.45	5.55	5.401	
600.00	600.00	600.00	600.00	3.04	3.04	-90.86	-0.45	-30.00	30.00	23.92	6.08	4.935	
700.00	700.00	700.00	700.00	3.28	3.28	-90.86	-0.45	-30.00	30.00	23.44	6.57	4.569	
800.00	800.00	800.00	800.00	3.51	3.51	-90.86	-0.45	-30.00	30.00	22.98	7.02	4.271	
900.00	900.00	900.00	900.00	3.73	3.73	-90.86	-0.45	-30.00	30.00	22.55	7.46	4.023	
1,000.00	1,000.00	1,000.00	1,000.00	3.94	3.94	-90.86	-0.45	-30.00	30.00	22.13	7.87	3.812	
1,100.00	1,100.00	1,100.00	1,100.00	4.13	4.13	-90.86	-0.45	-30.00	30.00	21.74	8.27	3.630	
1,200.00	1,200.00	1,200.00	1,200.00	4.32	4.32	-90.86	-0.45	-30.00	30.00	21.36	8.65	3.470	
1,300.00	1,300.00	1,300.00	1,300.00	4.51	4.51	-90.86	-0.45	-30.00	30.00	20.99	9.01	3.329	
1,400.00	1,400.00	1,400.00	1,400.00	4.68	4.68	-90.86	-0.45	-30.00	30.00	20.63	9.37	3.202	
1,500.00	1,500.00	1,500.00	1,500.00	4.86	4.86	-90.86	-0.45	-30.00	30.00	20.29	9.71	3.089	
1,600.00	1,600.00	1,600.00	1,600.00	5.03	5.03	-90.86	-0.45	-30.00	30.00	19.95	10.05	2.985	
1,700.00	1,700.00	1,700.00	1,700.00	5.19	5.19	-90.86	-0.45	-30.00	30.00	19.63	10.38	2.891	
1,800.00	1,800.00	1,800.00	1,800.00	5.35	5.35	-90.86	-0.45	-30.00	30.00	19.30	10.70	2.804	
1,900.00	1,900.00	1,900.00	1,900.00	5.51	5.51	-90.86	-0.45	-30.00	30.00	18.99	11.01	2.725	
2,000.00	2,000.00	2,000.00	2,000.00	5.66	5.66	-90.86	-0.45	-30.00	30.00	18.68	11.32	2.651	CC, ES, SF
2,100.00	2,100.00	2,098.96	2,098.94	5.81	5.89	-90.02	-0.01	-31.65	31.67	19.98	11.69	2.710	
2,200.00	2,200.00	2,197.69	2,197.53	5.96	6.11	-87.97	1.29	-36.59	36.70	24.65	12.04	3.047	
2,300.00	2,299.98	2,295.78	2,295.25	6.18	6.35	-159.90	3.45	-44.75	46.76	34.29	12.47	3.751	
2,400.00	2,399.84	2,392.56	2,391.33	6.40	6.61	-159.33	6.42	-55.96	63.39	50.49	12.89	4.917	
2,500.00	2,499.45	2,490.00	2,487.83	6.63	6.81	-159.53	9.88	-69.06	85.09	71.78	13.32	6.390	
2,600.00	2,598.70	2,586.84	2,583.72	6.89	7.03	-160.20	13.33	-82.09	110.00	96.23	13.77	7.987	
2,700.00	2,697.73	2,683.24	2,679.18	7.09	7.27	-160.99	16.76	-95.06	136.52	122.32	14.20	9.615	
2,800.00	2,796.76	2,779.65	2,774.65	7.31	7.52	-161.53	20.20	-108.03	163.06	148.40	14.65	11.127	
2,900.00	2,895.78	2,876.05	2,870.12	7.55	7.79	-161.91	23.63	-121.00	189.60	174.46	15.14	12.523	
3,000.00	2,994.81	2,972.46	2,965.59	7.81	8.06	-162.20	27.06	-133.97	216.15	200.50	15.65	13.808	
3,100.00	3,093.84	3,068.86	3,061.06	8.08	8.35	-162.42	30.49	-146.95	242.71	226.51	16.19	14.989	
3,200.00	3,192.86	3,165.27	3,156.52	8.36	8.65	-162.61	33.92	-159.92	269.26	252.51	16.75	16.071	
3,300.00	3,291.89	3,261.68	3,251.99	8.66	8.96	-162.75	37.35	-172.89	295.82	278.49	17.34	17.064	
3,400.00	3,390.92	3,358.08	3,347.46	8.97	9.28	-162.88	40.79	-185.86	322.38	304.45	17.94	17.974	
3,500.00	3,489.94	3,454.49	3,442.93	9.29	9.61	-162.98	44.22	-198.83	348.94	330.39	18.55	18.807	
3,600.00	3,588.97	3,550.89	3,538.39	9.61	9.94	-163.07	47.65	-211.80	375.51	356.32	19.19	19.572	
3,700.00	3,688.00	3,647.30	3,633.86	9.95	10.28	-163.15	51.08	-224.77	402.07	382.24	19.83	20.274	
3,800.00	3,787.02	3,743.71	3,729.33	10.29	10.62	-163.22	54.51	-237.74	428.63	408.14	20.49	20.918	
3,900.00	3,886.05	3,840.11	3,824.80	10.64	10.97	-163.28	57.94	-250.71	455.20	434.04	21.16	21.511	
4,000.00	3,985.08	3,936.52	3,920.27	11.00	11.33	-163.34	61.38	-263.68	481.76	459.92	21.84	22.058	
4,100.00	4,084.10	4,032.92	4,015.73	11.36	11.69	-163.38	64.81	-276.66	508.33	485.80	22.53	22.562	
4,200.00	4,183.13	4,129.33	4,111.20	11.72	12.05	-163.43	68.24	-289.63	534.90	511.67	23.23	23.028	
4,300.00	4,282.16	4,225.74	4,206.67	12.10	12.41	-163.47	71.67	-302.60	561.46	537.53	23.93	23.459	
4,400.00	4,381.18	4,322.14	4,302.14	12.47	12.78	-163.50	75.10	-315.57	588.03	563.38	24.65	23.858	
4,500.00	4,480.21	4,418.55	4,397.60	12.85	13.16	-163.54	78.54	-328.54	614.59	589.23	25.37	24.229	

CC - Min center to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 318H - OH - Plan 1 04-26-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
4,600.00	4,579.24	4,514.95	4,493.07	13.23	13.53	-163.57	81.97	-341.51	641.16	615.07	26.09	24.573	
4,700.00	4,678.26	4,611.36	4,588.54	13.61	13.91	-163.59	85.40	-354.48	667.73	640.91	26.82	24.894	
4,800.00	4,777.29	4,707.77	4,684.01	14.00	14.29	-163.62	88.83	-367.45	694.29	666.74	27.56	25.193	
4,900.00	4,876.32	4,804.17	4,779.48	14.39	14.67	-163.64	92.26	-380.42	720.86	692.56	28.30	25.473	
5,000.00	4,975.34	4,900.58	4,874.94	14.78	15.05	-163.66	95.69	-393.39	747.43	718.38	29.04	25.734	
5,100.00	5,074.37	4,996.98	4,970.41	15.18	15.44	-163.69	99.13	-406.37	774.00	744.20	29.79	25.979	
5,200.00	5,173.40	5,093.39	5,065.88	15.58	15.83	-163.70	102.56	-419.34	800.56	770.02	30.55	26.208	
5,300.00	5,272.43	5,189.80	5,161.35	15.98	16.21	-163.72	105.99	-432.31	827.13	795.83	31.30	26.424	
5,400.00	5,371.45	5,286.20	5,256.81	16.38	16.60	-163.74	109.42	-445.28	853.70	821.64	32.06	26.627	
5,500.00	5,470.48	5,382.61	5,352.28	16.78	17.00	-163.76	112.85	-458.25	880.27	847.44	32.82	26.818	
5,600.00	5,569.51	5,479.01	5,447.75	17.18	17.39	-163.77	116.28	-471.22	906.83	873.24	33.59	26.998	
5,700.00	5,668.53	5,575.42	5,543.22	17.59	17.78	-163.78	119.72	-484.19	933.40	899.04	34.36	27.168	
5,800.00	5,767.56	5,671.83	5,638.68	17.99	18.18	-163.80	123.15	-497.16	959.97	924.84	35.13	27.328	
5,900.00	5,866.59	5,768.23	5,734.15	18.40	18.57	-163.81	126.58	-510.13	986.54	950.64	35.90	27.480	
6,000.00	5,965.61	5,864.64	5,829.62	18.81	18.97	-163.82	130.01	-523.10	1,013.10	976.43	36.67	27.624	
6,100.00	6,064.64	5,961.04	5,925.09	19.22	19.37	-163.83	133.44	-536.08	1,039.67	1,002.22	37.45	27.760	
6,200.00	6,163.67	6,057.45	6,020.56	19.63	19.77	-163.84	136.88	-549.05	1,066.24	1,028.01	38.23	27.890	
6,300.00	6,262.69	6,153.86	6,116.02	20.05	20.17	-163.85	140.31	-562.02	1,092.81	1,053.80	39.01	28.013	
6,400.00	6,361.72	6,250.26	6,211.49	20.46	20.57	-163.86	143.74	-574.99	1,119.38	1,079.58	39.79	28.130	
6,500.00	6,460.75	6,346.67	6,306.96	20.87	20.97	-163.87	147.17	-587.96	1,145.94	1,105.37	40.58	28.241	
6,600.00	6,559.77	6,443.07	6,402.43	21.29	21.37	-163.88	150.60	-600.93	1,172.51	1,131.15	41.36	28.347	
6,700.00	6,658.80	6,539.48	6,497.89	21.70	21.77	-163.89	154.03	-613.90	1,199.08	1,156.93	42.15	28.449	
6,800.00	6,757.83	6,635.89	6,593.36	22.12	22.17	-163.90	157.47	-626.87	1,225.65	1,182.71	42.94	28.545	
6,900.00	6,856.85	6,732.29	6,688.83	22.54	22.58	-163.91	160.90	-639.84	1,252.22	1,208.49	43.72	28.639	
7,000.00	6,955.88	6,860.95	6,816.37	22.95	23.12	-163.93	165.23	-656.21	1,278.24	1,233.49	44.75	28.562	
7,100.00	7,055.00	7,033.70	6,988.49	23.35	23.80	-164.11	168.91	-670.11	1,298.88	1,252.93	45.95	28.266	
7,200.00	7,154.50	7,199.78	7,154.50	23.76	24.17	-164.33	169.94	-674.02	1,310.67	1,263.92	46.75	28.037	
7,300.00	7,254.28	7,299.56	7,254.28	24.14	24.23	-164.44	169.94	-674.02	1,316.92	1,269.76	47.16	27.925	
7,400.00	7,354.23	7,399.51	7,354.23	24.45	24.26	-164.49	169.94	-674.02	1,319.82	1,272.32	47.50	27.786	
7,500.00	7,454.23	7,499.51	7,454.23	24.51	24.30	-90.86	169.94	-674.02	1,320.04	1,272.44	47.60	27.732	
7,600.00	7,554.23	7,599.51	7,554.23	24.55	24.34	-90.86	169.94	-674.02	1,320.04	1,272.36	47.68	27.684	
7,700.00	7,654.23	7,699.51	7,654.23	24.59	24.39	-90.86	169.94	-674.02	1,320.04	1,272.27	47.76	27.636	
7,800.00	7,754.23	7,799.51	7,754.23	24.63	24.43	-90.86	169.94	-674.02	1,320.04	1,272.19	47.85	27.589	
7,900.00	7,854.23	7,899.51	7,854.23	24.67	24.47	-90.86	169.94	-674.02	1,320.04	1,272.11	47.93	27.541	
8,000.00	7,954.23	7,999.51	7,954.23	24.71	24.51	-90.86	169.94	-674.02	1,320.04	1,272.02	48.01	27.493	
8,100.00	8,054.23	8,099.51	8,054.23	24.75	24.55	-90.86	169.94	-674.02	1,320.04	1,271.94	48.10	27.445	
8,200.00	8,154.23	8,199.51	8,154.23	24.79	24.59	-90.86	169.94	-674.02	1,320.04	1,271.86	48.18	27.397	
8,300.00	8,254.23	8,299.51	8,254.23	24.83	24.63	-90.86	169.94	-674.02	1,320.04	1,271.77	48.27	27.349	
8,400.00	8,354.23	8,399.51	8,354.23	24.88	24.67	-90.86	169.94	-674.02	1,320.04	1,271.69	48.35	27.301	
8,500.00	8,454.23	8,499.51	8,454.23	24.92	24.72	-90.86	169.94	-674.02	1,320.04	1,271.60	48.44	27.253	
8,600.00	8,554.23	8,599.51	8,554.23	24.96	24.76	-90.86	169.94	-674.02	1,320.04	1,271.52	48.52	27.205	
8,700.00	8,654.23	8,699.51	8,654.23	25.00	24.80	-90.86	169.94	-674.02	1,320.04	1,271.43	48.61	27.156	
8,800.00	8,754.23	8,799.51	8,754.23	25.04	24.84	-90.86	169.94	-674.02	1,320.04	1,271.34	48.70	27.108	
8,900.00	8,854.23	8,899.51	8,854.23	25.09	24.89	-90.86	169.94	-674.02	1,320.04	1,271.26	48.78	27.060	
9,000.00	8,954.23	8,999.51	8,954.23	25.13	24.93	-90.86	169.94	-674.02	1,320.04	1,271.17	48.87	27.011	

CC - Min center to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 318H - OH - Plan 1 04-26-23											Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+HRGM											Offset Well Error:	1.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
9,100.00	9,054.23	9,099.51	9,054.23	25.17	24.97	-90.86	169.94	-674.02	1,320.04	1,271.08	48.96	26.963	
9,200.00	9,154.23	9,199.51	9,154.23	25.22	25.01	-90.86	169.94	-674.02	1,320.04	1,270.99	49.05	26.914	
9,300.00	9,254.23	9,299.51	9,254.23	25.26	25.06	-90.86	169.94	-674.02	1,320.04	1,270.90	49.13	26.866	
9,400.00	9,354.23	9,399.51	9,354.23	25.30	25.10	-90.86	169.94	-674.02	1,320.04	1,270.81	49.22	26.817	
9,500.00	9,454.23	9,499.51	9,454.23	25.35	25.15	-90.86	169.94	-674.02	1,320.04	1,270.73	49.31	26.769	
9,600.00	9,554.23	9,599.51	9,554.23	25.39	25.19	-90.86	169.94	-674.02	1,320.04	1,270.64	49.40	26.720	
9,700.00	9,654.23	9,699.51	9,654.23	25.43	25.23	-90.86	169.94	-674.02	1,320.04	1,270.55	49.49	26.672	
9,800.00	9,754.23	9,799.51	9,754.23	25.48	25.28	-90.86	169.94	-674.02	1,320.04	1,270.45	49.58	26.623	
9,900.00	9,854.23	9,899.51	9,854.23	25.52	25.32	-90.86	169.94	-674.02	1,320.04	1,270.36	49.67	26.574	
10,000.00	9,954.23	9,999.51	9,954.23	25.57	25.37	-90.86	169.94	-674.02	1,320.04	1,270.27	49.76	26.526	
10,100.00	10,054.23	10,099.51	10,054.23	25.61	25.41	-90.86	169.94	-674.02	1,320.04	1,270.18	49.86	26.477	
10,200.00	10,154.23	10,199.51	10,154.23	25.66	25.46	-90.86	169.94	-674.02	1,320.04	1,270.09	49.95	26.428	
10,300.00	10,254.23	10,299.51	10,254.23	25.70	25.50	-90.86	169.94	-674.02	1,320.04	1,270.00	50.04	26.379	
10,400.00	10,354.23	10,399.51	10,354.23	25.75	25.55	-90.86	169.94	-674.02	1,320.04	1,269.90	50.13	26.331	
10,500.00	10,454.23	10,499.51	10,454.23	25.79	25.59	-90.86	169.94	-674.02	1,320.04	1,269.81	50.23	26.282	
10,600.00	10,554.23	10,599.51	10,554.23	25.84	25.64	-90.86	169.94	-674.02	1,320.04	1,269.72	50.32	26.233	
10,700.00	10,654.23	10,699.51	10,654.23	25.89	25.69	-90.86	169.94	-674.02	1,320.04	1,269.62	50.41	26.184	
10,800.00	10,754.23	10,799.51	10,754.23	25.93	25.73	-90.86	169.94	-674.02	1,320.04	1,269.53	50.51	26.136	
10,900.00	10,854.23	10,899.51	10,854.23	25.98	25.78	-90.86	169.94	-674.02	1,320.04	1,269.44	50.60	26.087	
11,000.00	10,954.23	10,999.51	10,954.23	26.03	25.83	-90.86	169.94	-674.02	1,320.04	1,269.34	50.70	26.038	
11,100.00	11,054.23	11,099.51	11,054.23	26.07	25.87	-90.86	169.94	-674.02	1,320.04	1,269.25	50.79	25.989	
11,200.00	11,154.23	11,199.51	11,154.23	26.12	25.92	-90.86	169.94	-674.02	1,320.04	1,269.15	50.89	25.941	
11,300.00	11,254.23	11,299.51	11,254.23	26.17	25.97	-90.86	169.94	-674.02	1,320.04	1,269.05	50.98	25.892	
11,400.00	11,354.23	11,399.51	11,354.23	26.21	26.01	-90.86	169.94	-674.02	1,320.04	1,268.96	51.08	25.843	
11,410.17	11,364.40	11,409.68	11,364.40	26.22	26.02	-90.86	169.94	-674.02	1,320.04	1,268.95	51.09	25.838	
11,500.00	11,454.23	11,499.30	11,454.01	26.26	26.04	-90.87	169.66	-674.02	1,320.04	1,268.88	51.16	25.801	
11,600.00	11,553.76	11,597.24	11,550.87	26.18	25.94	89.47	156.30	-673.88	1,320.08	1,268.96	51.12	25.825	
11,700.00	11,649.51	11,694.06	11,641.95	26.06	25.82	89.23	123.97	-673.54	1,320.14	1,269.12	51.02	25.874	
11,800.00	11,737.31	11,789.91	11,723.89	25.95	25.72	89.03	74.54	-673.03	1,320.21	1,269.29	50.92	25.928	
11,810.13	11,745.61	11,800.00	11,731.90	25.94	25.71	89.01	68.41	-672.97	1,320.22	1,269.31	50.91	25.932	
11,900.00	11,813.32	11,885.00	11,793.81	25.88	25.67	88.87	10.35	-672.36	1,320.28	1,269.43	50.85	25.963	
11,916.18	11,824.28	11,900.00	11,803.63	25.88	25.66	88.84	-1.00	-672.24	1,320.29	1,269.44	50.85	25.964	
12,000.00	11,874.22	11,979.50	11,849.36	25.88	25.67	88.75	-65.91	-671.57	1,320.34	1,269.47	50.87	25.954	
12,019.03	11,883.87	11,997.44	11,858.15	25.89	25.68	88.73	-81.55	-671.41	1,320.35	1,269.45	50.90	25.942	
12,100.00	11,917.34	12,073.64	11,888.71	25.97	25.76	88.69	-151.26	-670.68	1,320.37	1,269.35	51.02	25.878	
12,120.82	11,923.90	12,093.22	11,894.74	26.01	25.79	88.68	-169.89	-670.49	1,320.37	1,269.29	51.08	25.849	
12,200.00	11,940.81	12,167.63	11,910.56	26.17	25.95	88.67	-242.52	-669.74	1,320.38	1,269.05	51.33	25.723	
12,300.00	11,945.00	12,263.49	11,915.00	26.47	26.25	88.70	-338.17	-668.74	1,320.36	1,268.55	51.81	25.485	
12,318.42	11,945.00	12,281.91	11,915.00	26.55	26.31	88.70	-356.59	-668.55	1,320.36	1,268.44	51.92	25.429	
12,400.00	11,945.00	12,363.49	11,915.00	26.87	26.65	88.70	-438.17	-667.70	1,320.36	1,267.89	52.48	25.161	
12,429.37	11,945.00	12,392.86	11,915.00	27.01	26.77	88.70	-467.54	-667.40	1,320.36	1,267.66	52.70	25.054	
12,500.00	11,945.00	12,463.49	11,915.00	27.33	27.11	88.70	-538.16	-666.67	1,320.36	1,267.07	53.29	24.777	
12,529.37	11,945.00	12,492.86	11,915.00	27.49	27.25	88.70	-567.53	-666.36	1,320.36	1,266.81	53.56	24.653	
12,600.00	11,945.00	12,563.49	11,915.00	27.86	27.64	88.70	-638.16	-665.63	1,320.36	1,266.12	54.25	24.340	
12,629.37	11,945.00	12,592.86	11,915.00	28.03	27.80	88.70	-667.52	-665.32	1,320.36	1,265.81	54.56	24.202	
12,700.00	11,945.00	12,663.49	11,915.00	28.45	28.22	88.70	-738.15	-664.59	1,320.36	1,265.02	55.34	23.859	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 318H - OH - Plan 1 04-26-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
12,729.37	11,945.00	12,692.86	11,915.00	28.63	28.40	88.70	-767.52	-664.28	1,320.36	1,264.68	55.69	23.711	
12,800.00	11,945.00	12,763.49	11,915.00	29.09	28.87	88.70	-838.14	-663.55	1,320.36	1,263.80	56.56	23.344	
12,829.37	11,945.00	12,792.86	11,915.00	29.29	29.06	88.70	-867.51	-663.25	1,320.36	1,263.42	56.94	23.187	
12,900.00	11,945.00	12,863.49	11,915.00	29.78	29.56	88.70	-938.14	-662.51	1,320.36	1,262.46	57.90	22.804	
12,929.37	11,945.00	12,892.86	11,915.00	30.00	29.77	88.70	-967.51	-662.21	1,320.36	1,262.04	58.32	22.641	
13,000.00	11,945.00	12,963.49	11,915.00	30.52	30.31	88.70	-1,038.13	-661.47	1,320.36	1,261.01	59.35	22.246	
13,029.37	11,945.00	12,992.86	11,915.00	30.75	30.53	88.70	-1,067.50	-661.17	1,320.36	1,260.56	59.80	22.079	
13,100.00	11,945.00	13,063.49	11,915.00	31.31	31.10	88.70	-1,138.13	-660.43	1,320.36	1,259.45	60.91	21.677	
13,129.37	11,945.00	13,092.86	11,915.00	31.55	31.33	88.70	-1,167.50	-660.13	1,320.36	1,258.98	61.39	21.509	
13,200.00	11,945.00	13,163.49	11,915.00	32.14	31.93	88.70	-1,238.12	-659.40	1,320.36	1,257.80	62.56	21.105	
13,229.37	11,945.00	13,192.86	11,915.00	32.39	32.18	88.70	-1,267.49	-659.09	1,320.36	1,257.30	63.07	20.937	
13,300.00	11,945.00	13,263.49	11,915.00	33.01	32.80	88.70	-1,338.12	-658.36	1,320.36	1,256.06	64.30	20.534	
13,329.37	11,945.00	13,292.86	11,915.00	33.27	33.06	88.70	-1,367.49	-658.05	1,320.36	1,255.53	64.83	20.366	
13,400.00	11,945.00	13,363.49	11,915.00	33.91	33.71	88.70	-1,438.11	-657.32	1,320.36	1,254.24	66.12	19.968	
13,429.37	11,945.00	13,392.86	11,915.00	34.19	33.98	88.70	-1,467.48	-657.01	1,320.36	1,253.69	66.68	19.803	
13,500.00	11,945.00	13,463.49	11,915.00	34.85	34.66	88.70	-1,538.11	-656.28	1,320.36	1,252.34	68.02	19.411	
13,529.37	11,945.00	13,492.86	11,915.00	35.14	34.94	88.70	-1,567.48	-655.98	1,320.36	1,251.77	68.59	19.249	
13,600.00	11,945.00	13,563.49	11,915.00	35.82	35.64	88.70	-1,638.10	-655.24	1,320.36	1,250.37	69.99	18.865	
13,629.37	11,945.00	13,592.86	11,915.00	36.12	35.93	88.70	-1,667.47	-654.94	1,320.36	1,249.78	70.58	18.708	
13,700.00	11,945.00	13,663.49	11,915.00	36.83	36.64	88.70	-1,738.10	-654.20	1,320.36	1,248.34	72.02	18.334	
13,729.37	11,945.00	13,692.86	11,915.00	37.13	36.94	88.70	-1,767.46	-653.90	1,320.36	1,247.73	72.63	18.180	
13,800.00	11,945.00	13,763.49	11,915.00	37.85	37.68	88.70	-1,838.09	-653.17	1,320.36	1,246.25	74.11	17.817	
13,829.37	11,945.00	13,792.86	11,915.00	38.16	37.98	88.70	-1,867.46	-652.86	1,320.36	1,245.63	74.73	17.668	
13,900.00	11,945.00	13,863.49	11,915.00	38.91	38.74	88.70	-1,938.09	-652.13	1,320.36	1,244.11	76.25	17.317	
13,929.37	11,945.00	13,892.86	11,915.00	39.23	39.05	88.70	-1,967.45	-651.82	1,320.36	1,243.47	76.89	17.173	
14,000.00	11,945.00	13,963.49	11,915.00	39.99	39.82	88.70	-2,038.08	-651.09	1,320.36	1,241.92	78.44	16.833	
14,029.37	11,945.00	13,992.86	11,915.00	40.31	40.14	88.70	-2,067.45	-650.78	1,320.36	1,241.27	79.09	16.694	
14,100.00	11,945.00	14,063.49	11,915.00	41.09	40.93	88.70	-2,138.07	-650.05	1,320.36	1,239.69	80.67	16.367	
14,129.37	11,945.00	14,092.86	11,915.00	41.42	41.25	88.70	-2,167.44	-649.74	1,320.36	1,239.02	81.34	16.233	
14,200.00	11,945.00	14,163.49	11,915.00	42.21	42.05	88.70	-2,238.07	-649.01	1,320.36	1,237.41	82.95	15.918	
14,229.37	11,945.00	14,192.86	11,915.00	42.55	42.38	88.70	-2,267.44	-648.71	1,320.36	1,236.73	83.63	15.789	
14,300.00	11,945.00	14,263.49	11,915.00	43.35	43.20	88.70	-2,338.06	-647.97	1,320.36	1,235.10	85.26	15.486	
14,329.37	11,945.00	14,292.86	11,915.00	43.69	43.53	88.70	-2,367.43	-647.67	1,320.36	1,234.41	85.95	15.362	
14,400.00	11,945.00	14,363.49	11,915.00	44.51	44.36	88.70	-2,438.06	-646.93	1,320.36	1,232.75	87.61	15.070	
14,429.37	11,945.00	14,392.86	11,915.00	44.85	44.70	88.70	-2,467.43	-646.63	1,320.36	1,232.05	88.31	14.951	
14,500.00	11,945.00	14,463.49	11,915.00	45.68	45.54	88.70	-2,538.05	-645.90	1,320.36	1,230.36	89.99	14.671	
14,529.37	11,945.00	14,492.86	11,915.00	46.03	45.88	88.70	-2,567.42	-645.59	1,320.36	1,229.66	90.70	14.557	
14,600.00	11,945.00	14,563.49	11,915.00	46.87	46.73	88.70	-2,638.05	-644.86	1,320.36	1,227.95	92.41	14.289	
14,629.37	11,945.00	14,592.86	11,915.00	47.23	47.08	88.70	-2,667.42	-644.55	1,320.36	1,227.24	93.12	14.179	
14,700.00	11,945.00	14,663.49	11,915.00	48.08	47.94	88.70	-2,738.04	-643.82	1,320.36	1,225.51	94.85	13.921	
14,729.37	11,945.00	14,692.86	11,915.00	48.43	48.29	88.70	-2,767.41	-643.51	1,320.36	1,224.79	95.57	13.816	
14,800.00	11,945.00	14,763.49	11,915.00	49.29	49.16	88.70	-2,838.04	-642.78	1,320.36	1,223.05	97.31	13.569	
14,829.37	11,945.00	14,792.86	11,915.00	49.65	49.52	88.70	-2,867.41	-642.48	1,320.36	1,222.32	98.04	13.468	
14,900.00	11,945.00	14,863.49	11,915.00	50.52	50.39	88.70	-2,938.03	-641.74	1,320.36	1,220.56	99.80	13.230	
14,929.37	11,945.00	14,892.86	11,915.00	50.89	50.75	88.70	-2,967.40	-641.44	1,320.36	1,219.82	100.53	13.134	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 318H - OH - Plan 1 04-26-23												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)			
15,000.00	11,945.00	14,963.49	11,915.00	51.76	51.63	88.70	-3,038.03	-640.70	1,320.36	1,218.05	102.31	12.906	
15,029.37	11,945.00	14,992.86	11,915.00	52.13	52.00	88.70	-3,067.39	-640.40	1,320.36	1,217.31	103.05	12.813	
15,100.00	11,945.00	15,063.49	11,915.00	53.01	52.89	88.70	-3,138.02	-639.66	1,320.36	1,215.52	104.84	12.594	
15,129.37	11,945.00	15,092.86	11,915.00	53.38	53.26	88.70	-3,167.39	-639.36	1,320.36	1,214.77	105.59	12.505	
15,200.00	11,945.00	15,163.49	11,915.00	54.27	54.15	88.70	-3,238.02	-638.63	1,320.36	1,212.97	107.39	12.295	
15,229.37	11,945.00	15,192.86	11,915.00	54.65	54.52	88.70	-3,267.38	-638.32	1,320.36	1,212.22	108.14	12.210	
15,300.00	11,945.00	15,263.49	11,915.00	55.54	55.42	88.70	-3,338.01	-637.59	1,320.36	1,210.40	109.95	12.008	
15,329.37	11,945.00	15,292.86	11,915.00	55.92	55.80	88.70	-3,367.38	-637.28	1,320.36	1,209.65	110.71	11.926	
15,400.00	11,945.00	15,363.49	11,915.00	56.82	56.70	88.70	-3,438.00	-636.55	1,320.36	1,207.82	112.54	11.733	
15,429.37	11,945.00	15,392.86	11,915.00	57.20	57.08	88.70	-3,467.37	-636.24	1,320.36	1,207.06	113.30	11.654	
15,500.00	11,945.00	15,463.49	11,915.00	58.11	57.99	88.70	-3,538.00	-635.51	1,320.36	1,205.22	115.13	11.468	
15,529.37	11,945.00	15,492.86	11,915.00	58.49	58.37	88.70	-3,567.37	-635.21	1,320.36	1,204.46	115.90	11.392	
15,600.00	11,945.00	15,563.49	11,915.00	59.40	59.29	88.70	-3,637.99	-634.47	1,320.36	1,202.61	117.75	11.214	
15,629.37	11,945.00	15,592.86	11,915.00	59.79	59.67	88.70	-3,667.36	-634.17	1,320.36	1,201.84	118.52	11.141	
15,700.00	11,945.00	15,663.49	11,915.00	60.70	60.59	88.70	-3,737.99	-633.43	1,320.36	1,199.98	120.37	10.969	
15,729.37	11,945.00	15,692.86	11,915.00	61.09	60.98	88.70	-3,767.36	-633.13	1,320.36	1,199.21	121.15	10.899	
15,800.00	11,945.00	15,763.49	11,915.00	62.01	61.90	88.70	-3,837.98	-632.39	1,320.36	1,197.35	123.01	10.734	
15,829.37	11,945.00	15,792.86	11,915.00	62.40	62.29	88.70	-3,867.35	-632.09	1,320.36	1,196.57	123.79	10.666	
15,900.00	11,945.00	15,863.49	11,915.00	63.33	63.22	88.70	-3,937.98	-631.36	1,320.36	1,194.70	125.66	10.507	
15,929.37	11,945.00	15,892.86	11,915.00	63.71	63.61	88.70	-3,967.35	-631.05	1,320.36	1,193.92	126.44	10.443	
16,000.00	11,945.00	15,963.49	11,915.00	64.65	64.54	88.70	-4,037.97	-630.32	1,320.36	1,192.03	128.32	10.289	
16,029.37	11,945.00	15,992.86	11,915.00	65.04	64.93	88.70	-4,067.34	-630.01	1,320.36	1,191.25	129.10	10.227	
16,100.00	11,945.00	16,063.49	11,915.00	65.97	65.87	88.70	-4,137.97	-629.28	1,320.36	1,189.36	130.99	10.080	
16,129.37	11,945.00	16,092.86	11,915.00	66.36	66.26	88.70	-4,167.34	-628.97	1,320.36	1,188.58	131.78	10.020	
16,200.00	11,945.00	16,163.49	11,915.00	67.30	67.20	88.70	-4,237.96	-628.24	1,320.36	1,186.68	133.67	9.878	
16,229.37	11,945.00	16,192.86	11,915.00	67.70	67.60	88.70	-4,267.33	-627.94	1,320.36	1,185.89	134.46	9.820	
16,300.00	11,945.00	16,263.49	11,915.00	68.64	68.54	88.70	-4,337.96	-627.20	1,320.35	1,183.99	136.36	9.683	
16,329.37	11,945.00	16,292.86	11,915.00	69.03	68.93	88.70	-4,367.32	-626.90	1,320.35	1,183.20	137.15	9.627	
16,400.00	11,945.00	16,363.49	11,915.00	69.98	69.88	88.70	-4,437.95	-626.16	1,320.35	1,181.29	139.06	9.495	
16,429.37	11,945.00	16,392.86	11,915.00	70.37	70.28	88.70	-4,467.32	-625.86	1,320.35	1,180.50	139.85	9.441	
16,500.00	11,945.00	16,463.49	11,915.00	71.32	71.23	88.70	-4,537.95	-625.13	1,320.35	1,178.59	141.77	9.314	
16,529.37	11,945.00	16,492.86	11,915.00	71.72	71.63	88.70	-4,567.31	-624.82	1,320.35	1,177.79	142.56	9.262	
16,600.00	11,945.00	16,563.49	11,915.00	72.67	72.58	88.70	-4,637.94	-624.09	1,320.35	1,175.87	144.48	9.139	
16,629.37	11,945.00	16,592.86	11,915.00	73.07	72.98	88.70	-4,667.31	-623.78	1,320.35	1,175.08	145.28	9.088	
16,700.00	11,945.00	16,663.49	11,915.00	74.02	73.93	88.70	-4,737.93	-623.05	1,320.35	1,173.15	147.20	8.970	
16,729.37	11,945.00	16,692.86	11,915.00	74.42	74.33	88.70	-4,767.30	-622.74	1,320.35	1,172.35	148.00	8.921	
16,800.00	11,945.00	16,763.49	11,915.00	75.38	75.29	88.70	-4,837.93	-622.01	1,320.35	1,170.42	149.93	8.807	
16,829.37	11,945.00	16,792.86	11,915.00	75.78	75.69	88.70	-4,867.30	-621.70	1,320.35	1,169.62	150.73	8.760	
16,900.00	11,945.00	16,863.49	11,915.00	76.74	76.65	88.70	-4,937.92	-620.97	1,320.35	1,167.69	152.66	8.649	
16,929.37	11,945.00	16,892.86	11,915.00	77.14	77.05	88.70	-4,967.29	-620.67	1,320.35	1,166.89	153.47	8.603	
17,000.00	11,945.00	16,963.49	11,915.00	78.10	78.02	88.70	-5,037.92	-619.93	1,320.35	1,164.95	155.40	8.496	
17,029.37	11,945.00	16,992.86	11,915.00	78.50	78.42	88.70	-5,067.29	-619.63	1,320.35	1,164.14	156.21	8.452	
17,100.00	11,945.00	17,063.49	11,915.00	79.47	79.39	88.70	-5,137.91	-618.89	1,320.35	1,162.20	158.15	8.349	
17,129.37	11,945.00	17,092.86	11,915.00	79.87	79.79	88.70	-5,167.28	-618.59	1,320.35	1,161.40	158.96	8.306	
17,200.00	11,945.00	17,163.49	11,915.00	80.84	80.76	88.70	-5,237.91	-617.86	1,320.35	1,159.45	160.90	8.206	
17,229.37	11,945.00	17,192.86	11,915.00	81.24	81.16	88.70	-5,267.28	-617.55	1,320.35	1,158.64	161.71	8.165	

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 318H - OH - Plan 1 04-26-23													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)				
17,300.00	11,945.00	17,263.49	11,915.00	82.21	82.13	88.70	-5,337.90	-616.82	1,320.35	1,156.69	163.66	8.068		
17,329.37	11,945.00	17,292.86	11,915.00	82.61	82.53	88.70	-5,367.27	-616.51	1,320.35	1,155.88	164.47	8.028		
17,400.00	11,945.00	17,363.49	11,915.00	83.58	83.51	88.70	-5,437.90	-615.78	1,320.35	1,153.93	166.42	7.934		
17,429.37	11,945.00	17,392.86	11,915.00	83.99	83.91	88.70	-5,467.27	-615.47	1,320.35	1,153.12	167.23	7.895		
17,500.00	11,945.00	17,463.49	11,915.00	84.96	84.88	88.70	-5,537.89	-614.74	1,320.35	1,151.17	169.19	7.804		
17,529.37	11,945.00	17,492.86	11,915.00	85.37	85.29	88.70	-5,567.26	-614.44	1,320.35	1,150.35	170.00	7.767		
17,600.00	11,945.00	17,563.49	11,915.00	86.34	86.26	88.70	-5,637.89	-613.70	1,320.35	1,148.39	171.96	7.678		
17,629.37	11,945.00	17,592.86	11,915.00	86.75	86.67	88.70	-5,667.25	-613.40	1,320.35	1,147.58	172.77	7.642		
17,700.00	11,945.00	17,663.49	11,915.00	87.72	87.65	88.70	-5,737.88	-612.66	1,320.35	1,145.62	174.73	7.556		
17,729.37	11,945.00	17,692.86	11,915.00	88.13	88.05	88.70	-5,767.25	-612.36	1,320.35	1,144.80	175.55	7.521		
17,800.00	11,945.00	17,763.49	11,915.00	89.11	89.03	88.70	-5,837.88	-611.62	1,320.35	1,142.84	177.51	7.438		
17,829.37	11,945.00	17,792.86	11,915.00	89.51	89.44	88.70	-5,867.24	-611.32	1,320.35	1,142.02	178.33	7.404		
17,900.00	11,945.00	17,863.49	11,915.00	90.49	90.42	88.70	-5,937.87	-610.59	1,320.35	1,140.06	180.30	7.323		
17,929.37	11,945.00	17,892.86	11,915.00	90.90	90.83	88.70	-5,967.24	-610.28	1,320.35	1,139.24	181.11	7.290		
18,000.00	11,945.00	17,963.49	11,915.00	91.88	91.81	88.70	-6,037.86	-609.55	1,320.35	1,137.27	183.08	7.212		
18,029.37	11,945.00	17,992.86	11,915.00	92.29	92.22	88.70	-6,067.23	-609.24	1,320.35	1,136.45	183.90	7.180		
18,100.00	11,945.00	18,063.49	11,915.00	93.27	93.20	88.70	-6,137.86	-608.51	1,320.35	1,134.48	185.87	7.104		
18,129.37	11,945.00	18,092.86	11,915.00	93.68	93.61	88.70	-6,167.23	-608.20	1,320.35	1,133.66	186.69	7.072		
18,200.00	11,945.00	18,163.49	11,915.00	94.66	94.59	88.70	-6,237.85	-607.47	1,320.35	1,131.68	188.67	6.998		
18,229.37	11,945.00	18,192.86	11,915.00	95.07	95.00	88.70	-6,267.22	-607.17	1,320.35	1,130.86	189.49	6.968		
18,300.00	11,945.00	18,263.49	11,915.00	96.06	95.99	88.70	-6,337.85	-606.43	1,320.35	1,128.89	191.46	6.896		
18,329.37	11,945.00	18,292.86	11,915.00	96.47	96.40	88.70	-6,367.22	-606.13	1,320.35	1,128.07	192.29	6.867		
18,400.00	11,945.00	18,363.49	11,915.00	97.45	97.39	88.70	-6,437.84	-605.39	1,320.35	1,126.09	194.26	6.797		
18,429.37	11,945.00	18,392.86	11,915.00	97.86	97.80	88.70	-6,467.21	-605.09	1,320.35	1,125.26	195.09	6.768		
18,500.00	11,945.00	18,463.49	11,915.00	98.85	98.78	88.70	-6,537.84	-604.36	1,320.35	1,123.28	197.07	6.700		
18,529.37	11,945.00	18,492.86	11,915.00	99.26	99.20	88.70	-6,567.21	-604.05	1,320.35	1,122.46	197.89	6.672		
18,600.00	11,945.00	18,563.49	11,915.00	100.25	100.18	88.70	-6,637.83	-603.32	1,320.35	1,120.48	199.87	6.606		
18,629.37	11,945.00	18,592.86	11,915.00	100.66	100.60	88.70	-6,667.20	-603.01	1,320.35	1,119.65	200.70	6.579		
18,700.00	11,945.00	18,663.49	11,915.00	101.65	101.58	88.70	-6,737.83	-602.28	1,320.35	1,117.67	202.68	6.514		
18,729.37	11,945.00	18,692.86	11,915.00	102.06	102.00	88.70	-6,767.20	-601.97	1,320.35	1,116.84	203.51	6.488		
18,800.00	11,945.00	18,763.49	11,915.00	103.05	102.99	88.70	-6,837.82	-601.24	1,320.35	1,114.86	205.49	6.425		
18,829.37	11,945.00	18,792.86	11,915.00	103.46	103.40	88.70	-6,867.19	-600.93	1,320.35	1,114.03	206.32	6.400		
18,900.00	11,945.00	18,863.49	11,915.00	104.45	104.39	88.70	-6,937.82	-600.20	1,320.35	1,112.04	208.31	6.339		
18,929.37	11,945.00	18,892.86	11,915.00	104.87	104.80	88.70	-6,967.18	-599.90	1,320.35	1,111.22	209.13	6.313		
19,000.00	11,945.00	18,963.49	11,915.00	105.86	105.80	88.70	-7,037.81	-599.16	1,320.35	1,109.23	211.12	6.254		
19,029.37	11,945.00	18,992.86	11,915.00	106.27	106.21	88.70	-7,067.18	-598.86	1,320.35	1,108.40	211.95	6.230		
19,100.00	11,945.00	19,063.49	11,915.00	107.26	107.20	88.70	-7,137.81	-598.12	1,320.35	1,106.41	213.94	6.172		
19,129.37	11,945.00	19,092.86	11,915.00	107.68	107.62	88.70	-7,167.17	-597.82	1,320.35	1,105.58	214.77	6.148		
19,200.00	11,945.00	19,163.49	11,915.00	108.67	108.61	88.70	-7,237.80	-597.09	1,320.35	1,103.59	216.76	6.091		
19,229.37	11,945.00	19,192.86	11,915.00	109.08	109.02	88.70	-7,267.17	-596.78	1,320.35	1,102.76	217.59	6.068		
19,300.00	11,945.00	19,263.49	11,915.00	110.08	110.02	88.70	-7,337.79	-596.05	1,320.35	1,100.76	219.58	6.013		
19,329.37	11,945.00	19,292.86	11,915.00	110.49	110.43	88.70	-7,367.16	-595.74	1,320.35	1,099.93	220.41	5.990		
19,400.00	11,945.00	19,363.49	11,915.00	111.49	111.43	88.70	-7,437.79	-595.01	1,320.35	1,097.94	222.41	5.937		
19,429.37	11,945.00	19,392.86	11,915.00	111.90	111.84	88.70	-7,467.16	-594.70	1,320.35	1,097.11	223.24	5.915		
19,500.00	11,945.00	19,463.49	11,915.00	112.90	112.84	88.70	-7,537.78	-593.97	1,320.35	1,095.11	225.24	5.862		

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix
Anticollision Report



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 318H - OH - Plan 1 04-26-23													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
19,529.37	11,945.00	19,492.86	11,915.00	113.31	113.25	88.70	-7,567.15	-593.67	1,320.35	1,094.28	226.07	5.841		
19,600.00	11,945.00	19,563.49	11,915.00	114.31	114.25	88.70	-7,637.78	-592.93	1,320.35	1,092.28	228.06	5.789		
19,629.37	11,945.00	19,592.86	11,915.00	114.72	114.67	88.70	-7,667.15	-592.63	1,320.35	1,091.45	228.90	5.768		
19,700.00	11,945.00	19,663.49	11,915.00	115.72	115.66	88.70	-7,737.77	-591.89	1,320.35	1,089.45	230.89	5.718		
19,729.37	11,945.00	19,692.86	11,915.00	116.14	116.08	88.70	-7,767.14	-591.59	1,320.35	1,088.62	231.73	5.698		
19,800.00	11,945.00	19,763.49	11,915.00	117.13	117.08	88.70	-7,837.77	-590.85	1,320.35	1,086.62	233.73	5.649		
19,829.37	11,945.00	19,792.86	11,915.00	117.55	117.49	88.70	-7,867.14	-590.55	1,320.35	1,085.79	234.56	5.629		
19,900.00	11,945.00	19,863.49	11,915.00	118.55	118.49	88.70	-7,937.76	-589.82	1,320.35	1,083.79	236.56	5.581		
19,929.37	11,945.00	19,892.86	11,915.00	118.96	118.91	88.70	-7,967.13	-589.51	1,320.35	1,082.95	237.39	5.562		
20,000.00	11,945.00	19,963.49	11,915.00	119.96	119.91	88.70	-8,037.76	-588.78	1,320.35	1,080.95	239.40	5.515		
20,029.37	11,945.00	19,992.86	11,915.00	120.38	120.32	88.70	-8,067.13	-588.47	1,320.35	1,080.12	240.23	5.496		
20,100.00	11,945.00	20,063.49	11,915.00	121.38	121.33	88.70	-8,137.75	-587.74	1,320.35	1,078.11	242.23	5.451		
20,129.37	11,945.00	20,092.86	11,915.00	121.80	121.74	88.70	-8,167.12	-587.43	1,320.35	1,077.28	243.07	5.432		
20,200.00	11,945.00	20,163.49	11,915.00	122.80	122.74	88.70	-8,237.75	-586.70	1,320.35	1,075.27	245.07	5.388		
20,229.37	11,945.00	20,192.86	11,915.00	123.21	123.16	88.70	-8,267.11	-586.40	1,320.35	1,074.44	245.91	5.369		
20,300.00	11,945.00	20,263.49	11,915.00	124.21	124.16	88.70	-8,337.74	-585.66	1,320.35	1,072.43	247.91	5.326		
20,329.37	11,945.00	20,292.86	11,915.00	124.63	124.58	88.70	-8,367.11	-585.36	1,320.35	1,071.60	248.75	5.308		
20,400.00	11,945.00	20,363.49	11,915.00	125.63	125.58	88.70	-8,437.73	-584.62	1,320.35	1,069.59	250.75	5.265		
20,429.37	11,945.00	20,392.86	11,915.00	126.05	126.00	88.70	-8,467.10	-584.32	1,320.35	1,068.76	251.59	5.248		
20,500.00	11,945.00	20,463.49	11,915.00	127.05	127.00	88.70	-8,537.73	-583.58	1,320.35	1,066.75	253.60	5.206		
20,529.37	11,945.00	20,492.86	11,915.00	127.47	127.42	88.70	-8,567.10	-583.28	1,320.35	1,065.91	254.43	5.189		
20,600.00	11,945.00	20,563.49	11,915.00	128.47	128.42	88.70	-8,637.72	-582.55	1,320.35	1,063.90	256.44	5.149		
20,629.37	11,945.00	20,592.86	11,915.00	128.89	128.84	88.70	-8,667.09	-582.24	1,320.35	1,063.07	257.28	5.132		
20,700.00	11,945.00	20,663.49	11,915.00	129.89	129.84	88.70	-8,737.72	-581.51	1,320.35	1,061.06	259.29	5.092		
20,729.37	11,945.00	20,692.86	11,915.00	130.31	130.26	88.70	-8,767.09	-581.20	1,320.35	1,060.22	260.12	5.076		
20,800.00	11,945.00	20,763.49	11,915.00	131.31	131.26	88.70	-8,837.71	-580.47	1,320.35	1,058.21	262.13	5.037		
20,829.37	11,945.00	20,792.86	11,915.00	131.73	131.68	88.70	-8,867.08	-580.16	1,320.35	1,057.37	262.97	5.021		
20,900.00	11,945.00	20,863.49	11,915.00	132.73	132.68	88.70	-8,937.71	-579.43	1,320.34	1,055.36	264.98	4.983		
20,929.37	11,945.00	20,892.86	11,915.00	133.15	133.10	88.70	-8,967.08	-579.13	1,320.34	1,054.53	265.82	4.967		
21,000.00	11,945.00	20,963.49	11,915.00	134.16	134.11	88.70	-9,037.70	-578.39	1,320.34	1,052.51	267.83	4.930		
21,029.37	11,945.00	20,992.86	11,915.00	134.57	134.53	88.70	-9,067.07	-578.09	1,320.34	1,051.68	268.67	4.914		
21,100.00	11,945.00	21,063.49	11,915.00	135.58	135.53	88.70	-9,137.70	-577.35	1,320.34	1,049.66	270.68	4.878		
21,129.37	11,945.00	21,092.86	11,915.00	136.00	135.95	88.70	-9,167.07	-577.05	1,320.34	1,048.83	271.52	4.863		
21,200.00	11,945.00	21,163.49	11,915.00	137.00	136.95	88.70	-9,237.69	-576.32	1,320.34	1,046.81	273.53	4.827		
21,229.37	11,945.00	21,192.86	11,915.00	137.42	137.37	88.70	-9,267.06	-576.01	1,320.34	1,045.97	274.37	4.812		
21,300.00	11,945.00	21,263.49	11,915.00	138.43	138.38	88.70	-9,337.69	-575.28	1,320.34	1,043.96	276.39	4.777		
21,329.37	11,945.00	21,292.86	11,915.00	138.85	138.80	88.70	-9,367.06	-574.97	1,320.34	1,043.12	277.22	4.763		
21,400.00	11,945.00	21,363.49	11,915.00	139.85	139.80	88.70	-9,437.68	-574.24	1,320.34	1,041.10	279.24	4.728		
21,429.37	11,945.00	21,392.86	11,915.00	140.27	140.22	88.70	-9,467.05	-573.93	1,320.34	1,040.27	280.08	4.714		
21,500.00	11,945.00	21,463.49	11,915.00	141.28	141.23	88.70	-9,537.68	-573.20	1,320.34	1,038.25	282.09	4.681		
21,529.37	11,945.00	21,492.86	11,915.00	141.70	141.65	88.70	-9,567.04	-572.89	1,320.34	1,037.41	282.93	4.667		
21,600.00	11,945.00	21,563.49	11,915.00	142.70	142.66	88.70	-9,637.67	-572.16	1,320.34	1,035.39	284.95	4.634		
21,629.37	11,945.00	21,592.86	11,915.00	143.12	143.08	88.70	-9,667.04	-571.86	1,320.34	1,034.56	285.79	4.620		
21,700.00	11,945.00	21,663.49	11,915.00	144.13	144.08	88.70	-9,737.66	-571.12	1,320.34	1,032.54	287.81	4.588		
21,729.37	11,945.00	21,692.86	11,915.00	144.55	144.50	88.70	-9,767.03	-570.82	1,320.34	1,031.70	288.64	4.574		
21,800.00	11,945.00	21,763.49	11,915.00	145.56	145.51	88.70	-9,837.66	-570.08	1,320.34	1,029.68	290.66	4.543		

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Offset Design 318H - OH - Plan 1 04-26-23													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Center		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centers (usft)	Between Ellipses (usft)				
21,829.37	11,945.00	21,792.86	11,915.00	145.98	145.93	88.70	-9,867.03	-569.78	1,320.34	1,028.84	291.50	4.529		
21,900.00	11,945.00	21,863.49	11,915.00	146.98	146.94	88.70	-9,937.65	-569.05	1,320.34	1,026.82	293.52	4.498		
21,929.37	11,945.00	21,892.86	11,915.00	147.40	147.36	88.70	-9,967.02	-568.74	1,320.34	1,025.98	294.36	4.485		
22,000.00	11,945.00	21,963.49	11,915.00	148.41	148.37	88.70	-10,037.65	-568.01	1,320.34	1,023.96	296.38	4.455		
22,029.37	11,945.00	21,992.86	11,915.00	148.83	148.79	88.70	-10,067.02	-567.70	1,320.34	1,023.12	297.22	4.442		
22,100.00	11,945.00	22,063.49	11,915.00	149.84	149.80	88.70	-10,137.64	-566.97	1,320.34	1,021.10	299.24	4.412		
22,129.37	11,945.00	22,092.86	11,915.00	150.26	150.22	88.70	-10,167.01	-566.66	1,320.34	1,020.26	300.08	4.400		
22,200.00	11,945.00	22,163.49	11,915.00	151.27	151.22	88.70	-10,237.64	-565.93	1,320.34	1,018.24	302.10	4.371		
22,225.84	11,945.00	22,189.33	11,915.00	151.64	151.59	88.70	-10,263.48	-565.66	1,320.34	1,017.50	302.84	4.360		
22,229.37	11,945.00	22,192.86	11,915.00	151.69	151.64	88.70	-10,267.01	-565.63	1,320.34	1,017.40	302.94	4.358		
22,232.76	11,945.00	22,196.25	11,915.00	151.74	151.69	88.70	-10,270.40	-565.59	1,320.34	1,017.30	303.04	4.357		

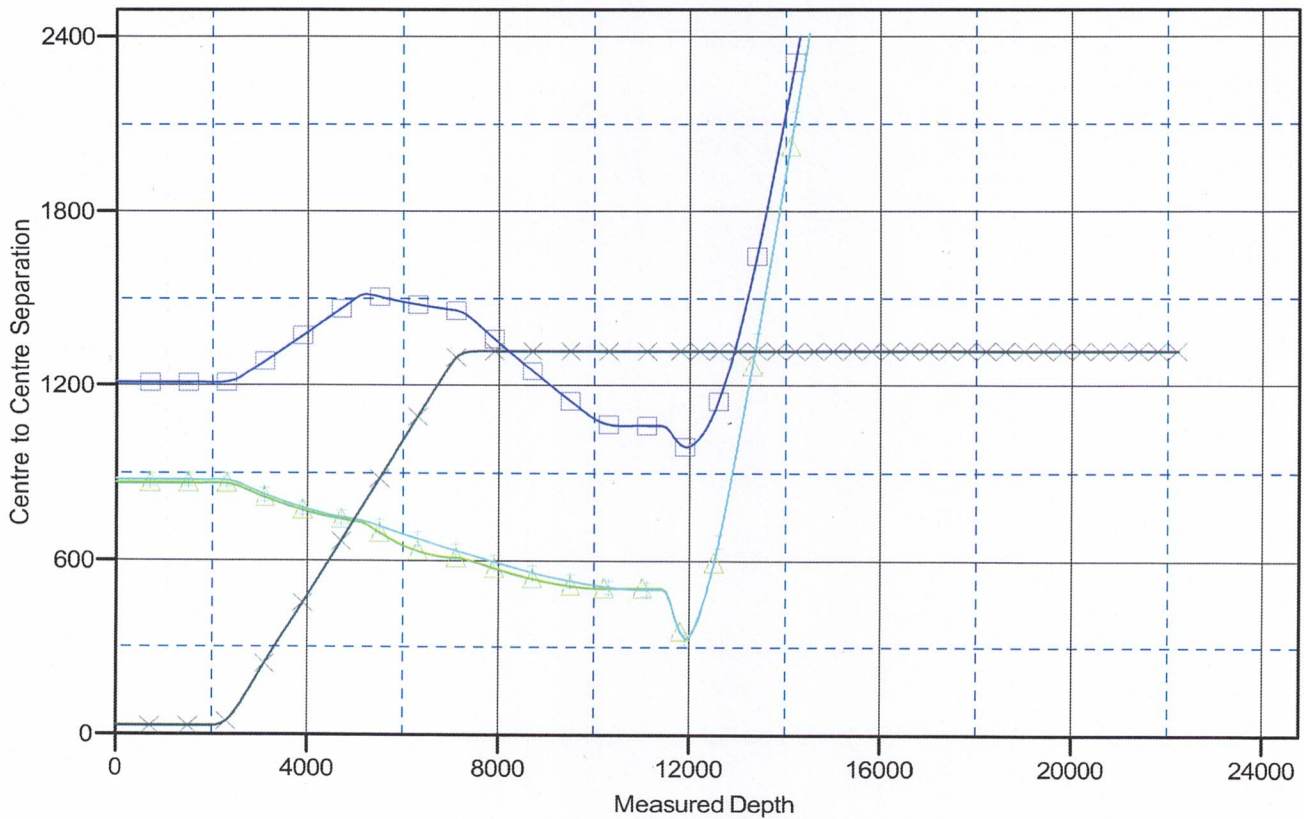
CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB @ 3902.00usft (TBD) Coordinates are relative to: 317H
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Central Meridian is 104° 19' 60.000000 W ° Grid Convergence at Surface is: 0.526°

Ladder Plot



LEGEND

- ▲ 2H, OH, Plan 1 02-15-23 V0
- 3H, OH, Plan 1 02-14-23 V0
- ✕ 318H, OH, Plan 1 04-26-23 V0



Phoenix
Anticollision Report

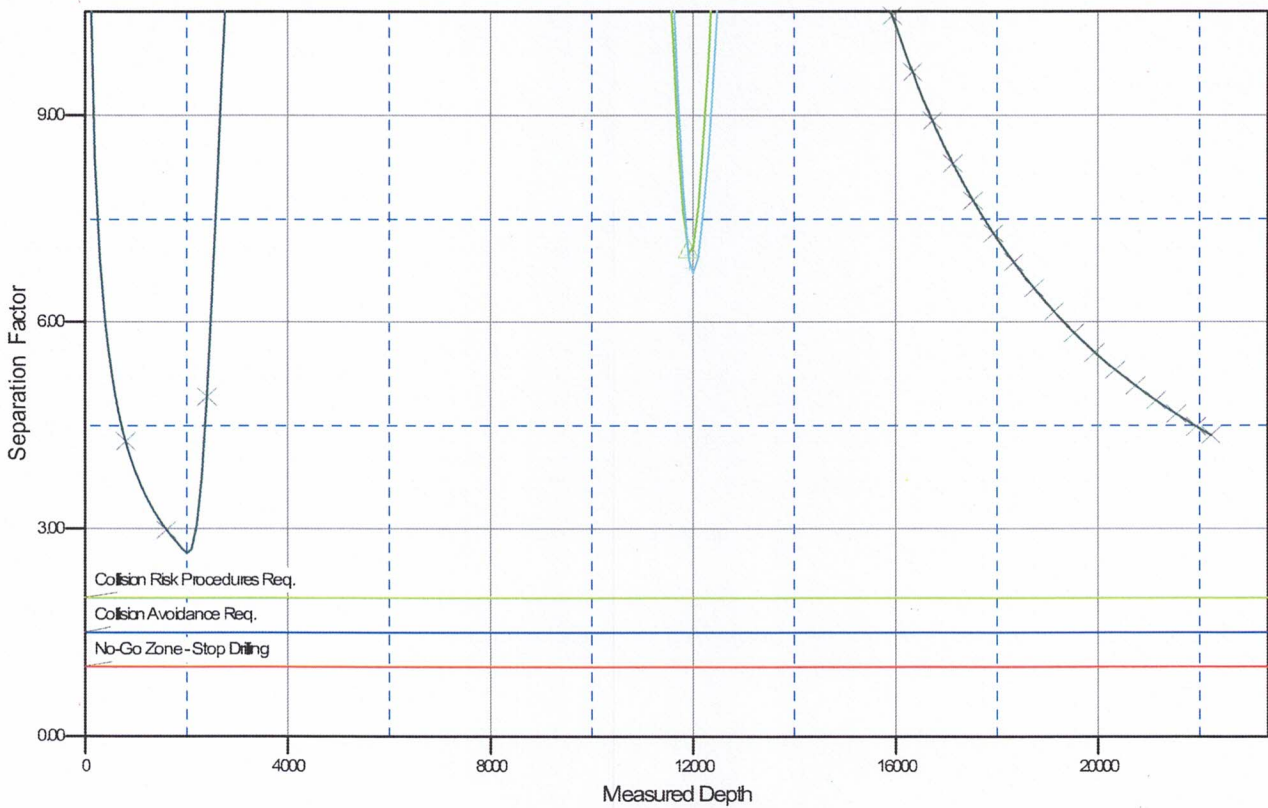


Company:	Texas Standard Oil	Local Co-ordinate Reference:	Well 317H
Project:	Lea County, NM (NAD 83 - NME)	TVD Reference:	RKB @ 3902.00usft (TBD)
Reference Site:	Vindicator Caynon State Unit	MD Reference:	RKB @ 3902.00usft (TBD)
Site Error:	0.00	North Reference:	Grid
Reference Well:	317H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USAEDMDB
Reference Design:	Plan 1 04-26-23	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB @ 3902.00usft (TBD)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 19' 60.000000 W °

Coordinates are relative to: 317H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.526°

Separation Factor Plot



LEGEND

- + 2H, OH, Plan 1 02-15-23 V0
- + 1H, OH, Plan 1 02-14-23 V0
- + 318H, OH, Plan 1 04-26-23 V0
- + 3H, OH, Plan 1 02-15-23 V0

CC - Min center to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Texas Standard Oil

Lea County, NM (NAD 83 - NME)
Vindicator Caynon State Unit
317H

OH

Plan: Plan 1 04-26-23

Standard Planning Report

26 April, 2023

TEXAS STANDARD OIL





Database:	USAEDMDB	Local Co-ordinate Reference:	Well 317H
Company:	Texas Standard Oil	TVD Reference:	RKB @ 3902.00usft (TBD)
Project:	Lea County, NM (NAD 83 - NME)	MD Reference:	RKB @ 3902.00usft (TBD)
Site:	Vindicator Caynon State Unit	North Reference:	Grid
Well:	317H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 04-26-23		

Project	Lea County, NM (NAD 83 - NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Vindicator Caynon State Unit				
Site Position:		Northing:	665,919.12 usft	Latitude:	32° 49' 36.782890 N
From:	Map	Easting:	839,132.24 usft	Longitude:	103° 21' 49.990090 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	317H					
Well Position	+N/-S	0.00 usft	Northing:	665,919.12 usft	Latitude:	32° 49' 36.782890 N
	+E/-W	0.00 usft	Easting:	839,132.24 usft	Longitude:	103° 21' 49.990090 W
Position Uncertainty	1.00 usft		Wellhead Elevation:	usft	Ground Level:	3,877.00 usft
Grid Convergence:	0.526 °					

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	2023-04-25	6.230	60.538	47,564.88183341

Design	Plan 1 04-26-23			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	175.79

Plan Survey Tool Program	Date	2023-04-26		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,232.76 Plan 1 04-26-23 (OH)	MWD+HRGM	
			OWSG MWD + HRGM	

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	0.000	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,600.00	8.00	73.63	2,598.70	7.86	26.75	2.00	2.00	0.00	73.634	
7,036.07	8.00	73.63	6,991.60	181.81	619.12	0.00	0.00	0.00	0.000	
7,436.07	0.00	0.00	7,390.30	189.67	645.87	2.00	-2.00	0.00	180.000	
11,513.30	0.00	0.00	11,467.54	189.67	645.87	0.00	0.00	0.00	0.000	
12,263.30	90.00	179.41	11,945.00	-287.77	650.83	12.00	12.00	0.00	179.405	
22,232.76	90.00	179.41	11,945.00	-10,256.69	754.34	0.00	0.00	0.00	0.000	BHL - VCSU 317H



Database:	USAEDMDB	Local Co-ordinate Reference:	Well 317H
Company:	Texas Standard Oil	TVD Reference:	RKB @ 3902.00usft (TBD)
Project:	Lea County, NM (NAD 83 - NME)	MD Reference:	RKB @ 3902.00usft (TBD)
Site:	Vindicator Caynon State Unit	North Reference:	Grid
Well:	317H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 04-26-23		

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
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build									
2,300.00	2.00	73.63	2,299.98	0.49	1.67	-0.37	2.00	2.00	0.00
2,400.00	4.00	73.63	2,399.84	1.97	6.70	-1.47	2.00	2.00	0.00
2,500.00	6.00	73.63	2,499.45	4.42	15.06	-3.31	2.00	2.00	0.00
2,600.00	8.00	73.63	2,598.70	7.86	26.75	-5.87	2.00	2.00	0.00
Hold 8.00° Inc at 73.63° Azm									
2,700.00	8.00	73.63	2,697.73	11.78	40.10	-8.80	0.00	0.00	0.00
2,800.00	8.00	73.63	2,796.76	15.70	53.46	-11.74	0.00	0.00	0.00
2,900.00	8.00	73.63	2,895.78	19.62	66.81	-14.67	0.00	0.00	0.00
3,000.00	8.00	73.63	2,994.81	23.54	80.16	-17.60	0.00	0.00	0.00
3,100.00	8.00	73.63	3,093.84	27.46	93.52	-20.53	0.00	0.00	0.00
3,200.00	8.00	73.63	3,192.86	31.38	106.87	-23.46	0.00	0.00	0.00
3,300.00	8.00	73.63	3,291.89	35.31	120.22	-26.39	0.00	0.00	0.00
3,400.00	8.00	73.63	3,390.92	39.23	133.58	-29.32	0.00	0.00	0.00
3,500.00	8.00	73.63	3,489.94	43.15	146.93	-32.26	0.00	0.00	0.00
3,600.00	8.00	73.63	3,588.97	47.07	160.29	-35.19	0.00	0.00	0.00
3,700.00	8.00	73.63	3,688.00	50.99	173.64	-38.12	0.00	0.00	0.00
3,800.00	8.00	73.63	3,787.02	54.91	186.99	-41.05	0.00	0.00	0.00
3,900.00	8.00	73.63	3,886.05	58.83	200.35	-43.98	0.00	0.00	0.00
4,000.00	8.00	73.63	3,985.08	62.76	213.70	-46.91	0.00	0.00	0.00
4,100.00	8.00	73.63	4,084.10	66.68	227.05	-49.84	0.00	0.00	0.00
4,200.00	8.00	73.63	4,183.13	70.60	240.41	-52.78	0.00	0.00	0.00
4,300.00	8.00	73.63	4,282.16	74.52	253.76	-55.71	0.00	0.00	0.00
4,400.00	8.00	73.63	4,381.18	78.44	267.11	-58.64	0.00	0.00	0.00
4,500.00	8.00	73.63	4,480.21	82.36	280.47	-61.57	0.00	0.00	0.00
4,600.00	8.00	73.63	4,579.24	86.28	293.82	-64.50	0.00	0.00	0.00
4,700.00	8.00	73.63	4,678.26	90.21	307.17	-67.43	0.00	0.00	0.00
4,800.00	8.00	73.63	4,777.29	94.13	320.53	-70.36	0.00	0.00	0.00
4,900.00	8.00	73.63	4,876.32	98.05	333.88	-73.30	0.00	0.00	0.00
5,000.00	8.00	73.63	4,975.34	101.97	347.23	-76.23	0.00	0.00	0.00
5,100.00	8.00	73.63	5,074.37	105.89	360.59	-79.16	0.00	0.00	0.00
5,200.00	8.00	73.63	5,173.40	109.81	373.94	-82.09	0.00	0.00	0.00
5,300.00	8.00	73.63	5,272.43	113.74	387.29	-85.02	0.00	0.00	0.00
5,400.00	8.00	73.63	5,371.45	117.66	400.65	-87.95	0.00	0.00	0.00
5,500.00	8.00	73.63	5,470.48	121.58	414.00	-90.88	0.00	0.00	0.00
5,600.00	8.00	73.63	5,569.51	125.50	427.35	-93.82	0.00	0.00	0.00
5,700.00	8.00	73.63	5,668.53	129.42	440.71	-96.75	0.00	0.00	0.00
5,800.00	8.00	73.63	5,767.56	133.34	454.06	-99.68	0.00	0.00	0.00
5,900.00	8.00	73.63	5,866.59	137.26	467.42	-102.61	0.00	0.00	0.00
6,000.00	8.00	73.63	5,965.61	141.19	480.77	-105.54	0.00	0.00	0.00
6,100.00	8.00	73.63	6,064.64	145.11	494.12	-108.47	0.00	0.00	0.00
6,200.00	8.00	73.63	6,163.67	149.03	507.48	-111.40	0.00	0.00	0.00
6,300.00	8.00	73.63	6,262.69	152.95	520.83	-114.34	0.00	0.00	0.00
6,400.00	8.00	73.63	6,361.72	156.87	534.18	-117.27	0.00	0.00	0.00
6,500.00	8.00	73.63	6,460.75	160.79	547.54	-120.20	0.00	0.00	0.00
6,600.00	8.00	73.63	6,559.77	164.71	560.89	-123.13	0.00	0.00	0.00
6,700.00	8.00	73.63	6,658.80	168.64	574.24	-126.06	0.00	0.00	0.00
6,800.00	8.00	73.63	6,757.83	172.56	587.60	-128.99	0.00	0.00	0.00
6,900.00	8.00	73.63	6,856.85	176.48	600.95	-131.92	0.00	0.00	0.00
7,000.00	8.00	73.63	6,955.88	180.40	614.30	-134.86	0.00	0.00	0.00
7,036.07	8.00	73.63	6,991.60	181.81	619.12	-135.91	0.00	0.00	0.00



Database:	USAEDMDB	Local Co-ordinate Reference:	Well 317H
Company:	Texas Standard Oil	TVD Reference:	RKB @ 3902.00usft (TBD)
Project:	Lea County, NM (NAD 83 - NME)	MD Reference:	RKB @ 3902.00usft (TBD)
Site:	Vindicator Caynon State Unit	North Reference:	Grid
Well:	317H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 04-26-23		

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)
Begin 2.00°/100' Drop									
7,100.00	6.72	73.63	7,055.00	184.12	626.98	-137.64	2.00	-2.00	0.00
7,200.00	4.72	73.63	7,154.50	186.93	636.54	-139.74	2.00	-2.00	0.00
7,300.00	2.72	73.63	7,254.28	188.76	642.77	-141.11	2.00	-2.00	0.00
7,400.00	0.72	73.63	7,354.23	189.61	645.65	-141.74	2.00	-2.00	0.00
7,436.07	0.00	0.00	7,390.30	189.67	645.87	-141.79	2.00	-2.00	-204.15
Begin Vertical Hold									
7,500.00	0.00	0.00	7,454.23	189.67	645.87	-141.79	0.00	0.00	0.00
7,600.00	0.00	0.00	7,554.23	189.67	645.87	-141.79	0.00	0.00	0.00
7,700.00	0.00	0.00	7,654.23	189.67	645.87	-141.79	0.00	0.00	0.00
7,800.00	0.00	0.00	7,754.23	189.67	645.87	-141.79	0.00	0.00	0.00
7,900.00	0.00	0.00	7,854.23	189.67	645.87	-141.79	0.00	0.00	0.00
8,000.00	0.00	0.00	7,954.23	189.67	645.87	-141.79	0.00	0.00	0.00
8,100.00	0.00	0.00	8,054.23	189.67	645.87	-141.79	0.00	0.00	0.00
8,200.00	0.00	0.00	8,154.23	189.67	645.87	-141.79	0.00	0.00	0.00
8,300.00	0.00	0.00	8,254.23	189.67	645.87	-141.79	0.00	0.00	0.00
8,400.00	0.00	0.00	8,354.23	189.67	645.87	-141.79	0.00	0.00	0.00
8,500.00	0.00	0.00	8,454.23	189.67	645.87	-141.79	0.00	0.00	0.00
8,600.00	0.00	0.00	8,554.23	189.67	645.87	-141.79	0.00	0.00	0.00
8,700.00	0.00	0.00	8,654.23	189.67	645.87	-141.79	0.00	0.00	0.00
8,800.00	0.00	0.00	8,754.23	189.67	645.87	-141.79	0.00	0.00	0.00
8,900.00	0.00	0.00	8,854.23	189.67	645.87	-141.79	0.00	0.00	0.00
9,000.00	0.00	0.00	8,954.23	189.67	645.87	-141.79	0.00	0.00	0.00
9,100.00	0.00	0.00	9,054.23	189.67	645.87	-141.79	0.00	0.00	0.00
9,200.00	0.00	0.00	9,154.23	189.67	645.87	-141.79	0.00	0.00	0.00
9,300.00	0.00	0.00	9,254.23	189.67	645.87	-141.79	0.00	0.00	0.00
9,400.00	0.00	0.00	9,354.23	189.67	645.87	-141.79	0.00	0.00	0.00
9,500.00	0.00	0.00	9,454.23	189.67	645.87	-141.79	0.00	0.00	0.00
9,600.00	0.00	0.00	9,554.23	189.67	645.87	-141.79	0.00	0.00	0.00
9,700.00	0.00	0.00	9,654.23	189.67	645.87	-141.79	0.00	0.00	0.00
9,800.00	0.00	0.00	9,754.23	189.67	645.87	-141.79	0.00	0.00	0.00
9,900.00	0.00	0.00	9,854.23	189.67	645.87	-141.79	0.00	0.00	0.00
10,000.00	0.00	0.00	9,954.23	189.67	645.87	-141.79	0.00	0.00	0.00
10,100.00	0.00	0.00	10,054.23	189.67	645.87	-141.79	0.00	0.00	0.00
10,200.00	0.00	0.00	10,154.23	189.67	645.87	-141.79	0.00	0.00	0.00
10,300.00	0.00	0.00	10,254.23	189.67	645.87	-141.79	0.00	0.00	0.00
10,400.00	0.00	0.00	10,354.23	189.67	645.87	-141.79	0.00	0.00	0.00
10,500.00	0.00	0.00	10,454.23	189.67	645.87	-141.79	0.00	0.00	0.00
10,600.00	0.00	0.00	10,554.23	189.67	645.87	-141.79	0.00	0.00	0.00
10,700.00	0.00	0.00	10,654.23	189.67	645.87	-141.79	0.00	0.00	0.00
10,800.00	0.00	0.00	10,754.23	189.67	645.87	-141.79	0.00	0.00	0.00
10,900.00	0.00	0.00	10,854.23	189.67	645.87	-141.79	0.00	0.00	0.00
11,000.00	0.00	0.00	10,954.23	189.67	645.87	-141.79	0.00	0.00	0.00
11,100.00	0.00	0.00	11,054.23	189.67	645.87	-141.79	0.00	0.00	0.00
11,200.00	0.00	0.00	11,154.23	189.67	645.87	-141.79	0.00	0.00	0.00
11,300.00	0.00	0.00	11,254.23	189.67	645.87	-141.79	0.00	0.00	0.00
11,400.00	0.00	0.00	11,354.23	189.67	645.87	-141.79	0.00	0.00	0.00
11,500.00	0.00	0.00	11,454.23	189.67	645.87	-141.79	0.00	0.00	0.00
11,513.30	0.00	0.00	11,467.54	189.67	645.87	-141.79	0.00	0.00	0.00
KOP2, Begin 12.00°/100' Build									
11,600.00	10.40	179.41	11,553.76	181.82	645.95	-133.95	12.00	12.00	0.00
11,700.00	22.40	179.41	11,649.51	153.63	646.24	-105.82	12.00	12.00	0.00
11,800.00	34.40	179.41	11,737.31	106.16	646.74	-58.43	12.00	12.00	0.00



Database:	USAEDMDB	Local Co-ordinate Reference:	Well 317H
Company:	Texas Standard Oil	TVD Reference:	RKB @ 3902.00usft (TBD)
Project:	Lea County, NM (NAD 83 - NME)	MD Reference:	RKB @ 3902.00usft (TBD)
Site:	Vindicator Caynon State Unit	North Reference:	Grid
Well:	317H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 04-26-23		

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)
11,900.00	46.40	179.41	11,813.32	41.46	647.41	6.14	12.00	12.00	0.00
FTP - VCSU 317H									
12,000.00	58.40	179.41	11,874.22	-37.62	648.23	85.07	12.00	12.00	0.00
12,100.00	70.40	179.41	11,917.34	-127.64	649.16	174.91	12.00	12.00	0.00
12,200.00	82.40	179.41	11,940.81	-224.65	650.17	271.74	12.00	12.00	0.00
12,263.30	90.00	179.41	11,945.00	-287.77	650.83	334.73	12.00	12.00	0.00
LP, Hold 90.00° Inc at 179.41° Azm									
12,300.00	90.00	179.41	11,945.00	-324.46	651.21	371.35	0.00	0.00	0.00
12,400.00	90.00	179.41	11,945.00	-424.46	652.25	471.16	0.00	0.00	0.00
12,500.00	90.00	179.41	11,945.00	-524.45	653.29	570.96	0.00	0.00	0.00
12,600.00	90.00	179.41	11,945.00	-624.45	654.32	670.76	0.00	0.00	0.00
12,700.00	90.00	179.41	11,945.00	-724.44	655.36	770.56	0.00	0.00	0.00
12,800.00	90.00	179.41	11,945.00	-824.44	656.40	870.36	0.00	0.00	0.00
12,900.00	90.00	179.41	11,945.00	-924.43	657.44	970.16	0.00	0.00	0.00
13,000.00	90.00	179.41	11,945.00	-1,024.43	658.48	1,069.96	0.00	0.00	0.00
13,100.00	90.00	179.41	11,945.00	-1,124.42	659.51	1,169.77	0.00	0.00	0.00
13,200.00	90.00	179.41	11,945.00	-1,224.41	660.55	1,269.57	0.00	0.00	0.00
13,300.00	90.00	179.41	11,945.00	-1,324.41	661.59	1,369.37	0.00	0.00	0.00
13,400.00	90.00	179.41	11,945.00	-1,424.40	662.63	1,469.17	0.00	0.00	0.00
13,500.00	90.00	179.41	11,945.00	-1,524.40	663.67	1,568.97	0.00	0.00	0.00
13,600.00	90.00	179.41	11,945.00	-1,624.39	664.71	1,668.77	0.00	0.00	0.00
13,700.00	90.00	179.41	11,945.00	-1,724.39	665.74	1,768.57	0.00	0.00	0.00
13,800.00	90.00	179.41	11,945.00	-1,824.38	666.78	1,868.38	0.00	0.00	0.00
13,900.00	90.00	179.41	11,945.00	-1,924.38	667.82	1,968.18	0.00	0.00	0.00
14,000.00	90.00	179.41	11,945.00	-2,024.37	668.86	2,067.98	0.00	0.00	0.00
14,100.00	90.00	179.41	11,945.00	-2,124.37	669.90	2,167.78	0.00	0.00	0.00
14,200.00	90.00	179.41	11,945.00	-2,224.36	670.94	2,267.58	0.00	0.00	0.00
14,300.00	90.00	179.41	11,945.00	-2,324.36	671.97	2,367.38	0.00	0.00	0.00
14,400.00	90.00	179.41	11,945.00	-2,424.35	673.01	2,467.18	0.00	0.00	0.00
14,500.00	90.00	179.41	11,945.00	-2,524.34	674.05	2,566.99	0.00	0.00	0.00
14,600.00	90.00	179.41	11,945.00	-2,624.34	675.09	2,666.79	0.00	0.00	0.00
14,700.00	90.00	179.41	11,945.00	-2,724.33	676.13	2,766.59	0.00	0.00	0.00
14,800.00	90.00	179.41	11,945.00	-2,824.33	677.17	2,866.39	0.00	0.00	0.00
14,900.00	90.00	179.41	11,945.00	-2,924.32	678.20	2,966.19	0.00	0.00	0.00
15,000.00	90.00	179.41	11,945.00	-3,024.32	679.24	3,065.99	0.00	0.00	0.00
15,100.00	90.00	179.41	11,945.00	-3,124.31	680.28	3,165.79	0.00	0.00	0.00
15,200.00	90.00	179.41	11,945.00	-3,224.31	681.32	3,265.60	0.00	0.00	0.00
15,300.00	90.00	179.41	11,945.00	-3,324.30	682.36	3,365.40	0.00	0.00	0.00
15,400.00	90.00	179.41	11,945.00	-3,424.30	683.40	3,465.20	0.00	0.00	0.00
15,500.00	90.00	179.41	11,945.00	-3,524.29	684.43	3,565.00	0.00	0.00	0.00
15,600.00	90.00	179.41	11,945.00	-3,624.29	685.47	3,664.80	0.00	0.00	0.00
15,700.00	90.00	179.41	11,945.00	-3,724.28	686.51	3,764.60	0.00	0.00	0.00
15,800.00	90.00	179.41	11,945.00	-3,824.27	687.55	3,864.40	0.00	0.00	0.00
15,900.00	90.00	179.41	11,945.00	-3,924.27	688.59	3,964.21	0.00	0.00	0.00
16,000.00	90.00	179.41	11,945.00	-4,024.26	689.63	4,064.01	0.00	0.00	0.00
16,100.00	90.00	179.41	11,945.00	-4,124.26	690.66	4,163.81	0.00	0.00	0.00
16,200.00	90.00	179.41	11,945.00	-4,224.25	691.70	4,263.61	0.00	0.00	0.00
16,300.00	90.00	179.41	11,945.00	-4,324.25	692.74	4,363.41	0.00	0.00	0.00
16,400.00	90.00	179.41	11,945.00	-4,424.24	693.78	4,463.21	0.00	0.00	0.00
16,500.00	90.00	179.41	11,945.00	-4,524.24	694.82	4,563.01	0.00	0.00	0.00
16,600.00	90.00	179.41	11,945.00	-4,624.23	695.86	4,662.82	0.00	0.00	0.00
16,700.00	90.00	179.41	11,945.00	-4,724.23	696.89	4,762.62	0.00	0.00	0.00
16,800.00	90.00	179.41	11,945.00	-4,824.22	697.93	4,862.42	0.00	0.00	0.00
16,900.00	90.00	179.41	11,945.00	-4,924.22	698.97	4,962.22	0.00	0.00	0.00



Database:	USAEDMDB	Local Co-ordinate Reference:	Well 317H
Company:	Texas Standard Oil	TVD Reference:	RKB @ 3902.00usft (TBD)
Project:	Lea County, NM (NAD 83 - NME)	MD Reference:	RKB @ 3902.00usft (TBD)
Site:	Vindicator Caynon State Unit	North Reference:	Grid
Well:	317H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 04-26-23		

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)
17,000.00	90.00	179.41	11,945.00	-5,024.21	700.01	5,062.02	0.00	0.00	0.00
17,100.00	90.00	179.41	11,945.00	-5,124.20	701.05	5,161.82	0.00	0.00	0.00
17,200.00	90.00	179.41	11,945.00	-5,224.20	702.09	5,261.62	0.00	0.00	0.00
17,300.00	90.00	179.41	11,945.00	-5,324.19	703.12	5,361.43	0.00	0.00	0.00
17,400.00	90.00	179.41	11,945.00	-5,424.19	704.16	5,461.23	0.00	0.00	0.00
17,500.00	90.00	179.41	11,945.00	-5,524.18	705.20	5,561.03	0.00	0.00	0.00
17,600.00	90.00	179.41	11,945.00	-5,624.18	706.24	5,660.83	0.00	0.00	0.00
17,700.00	90.00	179.41	11,945.00	-5,724.17	707.28	5,760.63	0.00	0.00	0.00
17,800.00	90.00	179.41	11,945.00	-5,824.17	708.31	5,860.43	0.00	0.00	0.00
17,900.00	90.00	179.41	11,945.00	-5,924.16	709.35	5,960.23	0.00	0.00	0.00
18,000.00	90.00	179.41	11,945.00	-6,024.16	710.39	6,060.04	0.00	0.00	0.00
18,100.00	90.00	179.41	11,945.00	-6,124.15	711.43	6,159.84	0.00	0.00	0.00
18,200.00	90.00	179.41	11,945.00	-6,224.15	712.47	6,259.64	0.00	0.00	0.00
18,300.00	90.00	179.41	11,945.00	-6,324.14	713.51	6,359.44	0.00	0.00	0.00
18,400.00	90.00	179.41	11,945.00	-6,424.13	714.54	6,459.24	0.00	0.00	0.00
18,500.00	90.00	179.41	11,945.00	-6,524.13	715.58	6,559.04	0.00	0.00	0.00
18,600.00	90.00	179.41	11,945.00	-6,624.12	716.62	6,658.84	0.00	0.00	0.00
18,700.00	90.00	179.41	11,945.00	-6,724.12	717.66	6,758.65	0.00	0.00	0.00
18,800.00	90.00	179.41	11,945.00	-6,824.11	718.70	6,858.45	0.00	0.00	0.00
18,900.00	90.00	179.41	11,945.00	-6,924.11	719.74	6,958.25	0.00	0.00	0.00
19,000.00	90.00	179.41	11,945.00	-7,024.10	720.77	7,058.05	0.00	0.00	0.00
19,100.00	90.00	179.41	11,945.00	-7,124.10	721.81	7,157.85	0.00	0.00	0.00
19,200.00	90.00	179.41	11,945.00	-7,224.09	722.85	7,257.65	0.00	0.00	0.00
19,300.00	90.00	179.41	11,945.00	-7,324.09	723.89	7,357.45	0.00	0.00	0.00
19,400.00	90.00	179.41	11,945.00	-7,424.08	724.93	7,457.26	0.00	0.00	0.00
19,500.00	90.00	179.41	11,945.00	-7,524.08	725.97	7,557.06	0.00	0.00	0.00
19,600.00	90.00	179.41	11,945.00	-7,624.07	727.00	7,656.86	0.00	0.00	0.00
19,700.00	90.00	179.41	11,945.00	-7,724.06	728.04	7,756.66	0.00	0.00	0.00
19,800.00	90.00	179.41	11,945.00	-7,824.06	729.08	7,856.46	0.00	0.00	0.00
19,900.00	90.00	179.41	11,945.00	-7,924.05	730.12	7,956.26	0.00	0.00	0.00
20,000.00	90.00	179.41	11,945.00	-8,024.05	731.16	8,056.06	0.00	0.00	0.00
20,100.00	90.00	179.41	11,945.00	-8,124.04	732.20	8,155.87	0.00	0.00	0.00
20,200.00	90.00	179.41	11,945.00	-8,224.04	733.23	8,255.67	0.00	0.00	0.00
20,300.00	90.00	179.41	11,945.00	-8,324.03	734.27	8,355.47	0.00	0.00	0.00
20,400.00	90.00	179.41	11,945.00	-8,424.03	735.31	8,455.27	0.00	0.00	0.00
20,500.00	90.00	179.41	11,945.00	-8,524.02	736.35	8,555.07	0.00	0.00	0.00
20,600.00	90.00	179.41	11,945.00	-8,624.02	737.39	8,654.87	0.00	0.00	0.00
20,700.00	90.00	179.41	11,945.00	-8,724.01	738.43	8,754.67	0.00	0.00	0.00
20,800.00	90.00	179.41	11,945.00	-8,824.01	739.46	8,854.48	0.00	0.00	0.00
20,900.00	90.00	179.41	11,945.00	-8,924.00	740.50	8,954.28	0.00	0.00	0.00
21,000.00	90.00	179.41	11,945.00	-9,023.99	741.54	9,054.08	0.00	0.00	0.00
21,100.00	90.00	179.41	11,945.00	-9,123.99	742.58	9,153.88	0.00	0.00	0.00
21,200.00	90.00	179.41	11,945.00	-9,223.98	743.62	9,253.68	0.00	0.00	0.00
21,300.00	90.00	179.41	11,945.00	-9,323.98	744.66	9,353.48	0.00	0.00	0.00
21,400.00	90.00	179.41	11,945.00	-9,423.97	745.69	9,453.28	0.00	0.00	0.00
21,500.00	90.00	179.41	11,945.00	-9,523.97	746.73	9,553.09	0.00	0.00	0.00
21,600.00	90.00	179.41	11,945.00	-9,623.96	747.77	9,652.89	0.00	0.00	0.00
21,700.00	90.00	179.41	11,945.00	-9,723.96	748.81	9,752.69	0.00	0.00	0.00
21,800.00	90.00	179.41	11,945.00	-9,823.95	749.85	9,852.49	0.00	0.00	0.00
21,900.00	90.00	179.41	11,945.00	-9,923.95	750.88	9,952.29	0.00	0.00	0.00
22,000.00	90.00	179.41	11,945.00	-10,023.94	751.92	10,052.09	0.00	0.00	0.00
22,100.00	90.00	179.41	11,945.00	-10,123.94	752.96	10,151.89	0.00	0.00	0.00
22,182.77	90.00	179.41	11,945.00	-10,206.70	753.82	10,234.50	0.00	0.00	0.00



Database:	USAEDMDB	Local Co-ordinate Reference:	Well 317H
Company:	Texas Standard Oil	TVD Reference:	RKB @ 3902.00usft (TBD)
Project:	Lea County, NM (NAD 83 - NME)	MD Reference:	RKB @ 3902.00usft (TBD)
Site:	Vindicator Caynon State Unit	North Reference:	Grid
Well:	317H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 04-26-23		

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)
LTP - VCSU 317H									
22,200.00	90.00	179.41	11,945.00	-10,223.93	754.00	10,251.70	0.00	0.00	0.00
22,232.76	90.00	179.41	11,945.00	-10,256.69	754.34	10,284.39	0.00	0.00	0.00
TD at 22232.76 - BHL - VCSU 317H									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP - VCSU 317H - hit/miss target - Shape - Point	0.00	0.00	11,945.00	-10,206.70	753.84	655,712.42	839,886.08	32° 47' 55.732261 N	103° 21' 42.255712 W
- plan misses target center by 0.02usft at 22182.77usft MD (11945.00 TVD, -10206.70 N, 753.82 E)									
BHL - VCSU 317H - plan hits target center - Point	0.00	0.00	11,945.00	-10,256.69	754.34	655,662.43	839,886.58	32° 47' 55.237627 N	103° 21' 42.255235 W
FTP - VCSU 317H - plan misses target center by 198.26usft at 11900.00usft MD (11813.32 TVD, 41.46 N, 647.41 E) - Point	0.00	0.00	11,945.00	189.67	645.87	666,108.79	839,778.11	32° 49' 38.600745 N	103° 21' 42.401315 W

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
2,200.00	2,200.00	0.00	0.00	KOP, Begin 2.00°/100' Build	
2,600.00	2,598.70	7.86	26.75	Hold 8.00° Inc at 73.63° Azm	
7,036.07	6,991.60	181.81	619.12	Begin 2.00°/100' Drop	
7,436.07	7,390.30	189.67	645.87	Begin Vertical Hold	
11,513.30	11,467.54	189.67	645.87	KOP2, Begin 12.00°/100' Build	
12,263.30	11,945.00	-287.77	650.83	LP, Hold 90.00° Inc at 179.41° Azm	
22,232.76	11,945.00	-10,256.69	754.34	TD at 22232.76	

WELL DETAILS			
+N/S	+E/W	Northing	Eastng
0.00	0.00	665916.67	839102.24
		Ground Level	3877.00
		Latitude	103° 21' 50.341680 W
		Longitude	

SECTION DETAILS			
Sec	MD	Inc	Azi
1	0.00	0.00	0.00
2	2000.01	8.00	284.82
3	2400.01	8.00	284.82
4	6785.98	0.00	284.82
5	11485.28	0.00	11437.54
6	22198.18	90.00	179.40

DESIGN TARGET DETAILS			
Name	TVD	+N/S	+E/W
BHL - VCSU 318H	11915.00	-10271.87	-535.57
FTP - VCSU 318H	11915.00	170.39	-444.02
LP - VCSU 318H	11915.00	-10271.87	-535.07

Map System: US State Plane 1983			
Map System:	US State Plane 1983	Datum:	North American Datum 1983
Ellipsoid:	GRS 1980	Zone Name:	New Mexico Eastern Zone
Local Origin:	Well 318H, Grid North	Latitude:	32° 49' 38.781160 N
Longitude:	103° 21' 50.341680 W	Grid East:	839102.24
Grid North:	665918.67	Scale Factor:	1.000

Geomagnetic Model: IAGG15
 Sample Date: 6/20/23
 Magnetic Intensity: 47564.887632895T
 Dip Angle from Horizontal: 60.538°
 Magnetic Field Strength: 47564.887632895T

To convert a Magnetic Direction to a Grid Direction, Add 5.705°
 To convert a Magnetic Direction to a True Direction, Add 6.230° East
 To convert a True Direction to a Grid Direction, Subtract 0.526°

