

30-041-20978



Pacific Energy
DEVELOPMENT

Ridgeway Arizona Oil Corp.
Project: Permian NM E'83
County: Roosevelt
Site: JC SAU 1-2 Pad
Well: Jennifer Chaverro SAU #2H
Wellbore: #2H OH
Design: #2H OH



TITAN
Directional Drilling

CASING DETAILS

TVD	MD	Name
2018.81	2039.00	9 5/8"
4062.15	4182.00	5 1/2" *
4185.34	4413.00	7" *
4313.03	9537.00	5 1/2"

* Joint bottom / Crossover top



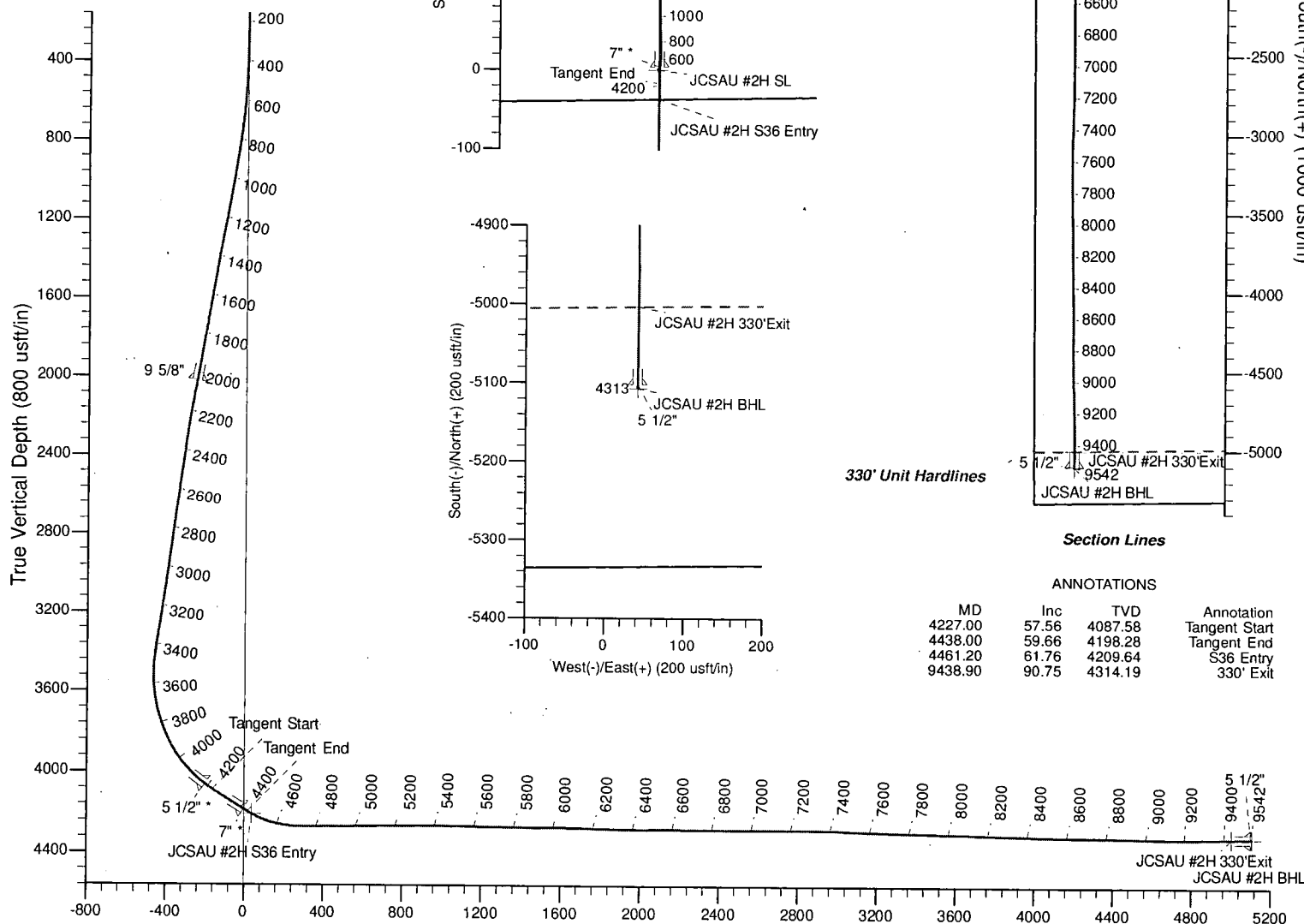
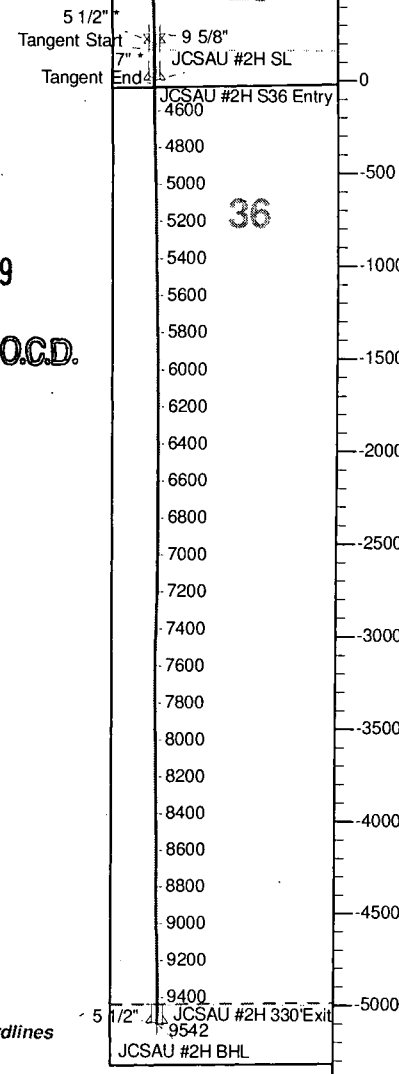
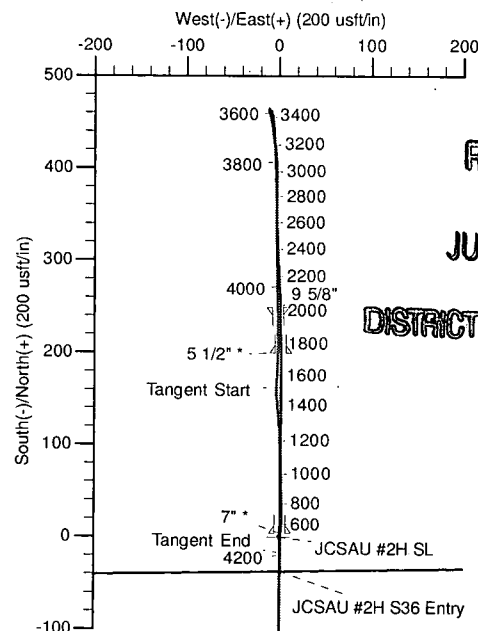
Azimuths to Grid North
True North: -0.45°
Magnetic North: 6.43°

Magnetic Field
Strength: 48632.0snT
Dip Angle: 61.36°
Date: 12/19/2018
Model: IGRF2015

US State Plane 1983
New Mexico Eastern Zone
33° 40' 18.350 N
103° 31' 34.499 W

West(-)/East(+) (1000 usft/in)

-500 0 500 1000



Section Lines

ANNOTATIONS

MD	Inc	TVD	Annotation
4227.00	57.56	4087.58	Tangent Start
4438.00	59.66	4198.28	Tangent End
4461.20	61.76	4209.64	S36 Entry
9438.90	90.75	4314.19	330' Exit

Vertical Section at 179.36° (800 usft/in)

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
JCSAU #2H SL	0.00	0.00	0.00	972913.70	786881.50	33° 40' 18.350 N	103° 31' 34.499 W
JCSAU #2H S36 Entry	4209.64	-36.87	1.70	972876.84	786883.20	33° 40' 17.985 N	103° 31' 34.482 W
JCSAU #2H BHL	4312.97	-5106.62	41.68	967807.19	786923.18	33° 39' 27.829 N	103° 31' 34.478 W
JCSAU #2H 330'Exit	4314.19	-5003.53	42.58	967910.28	786924.08	33° 39' 28.849 N	103° 31' 34.458 W

Titan Directional Drilling

Survey Report

Company:	Ridgeway Arizona Oil Corp.	Local Co-ordinate Reference:	Well Jennifer Chaveroo SAU #2H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 4339.00usft (Norton #6)
Site:	JC SAU 1-2 Pad	MD Reference:	GL+KB @ 4339.00usft (Norton #6)
Well:	Jennifer Chaveroo SAU #2H	North Reference:	Grid
Wellbore:	#2H OH	Survey Calculation Method:	Minimum Curvature
Design:	#2H OH	Database:	EDM 5k-14

Project	Permian NM E'83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	JC SAU 1-2 Pad, Centered on JC SAU #1H		
Site Position:	Northing:	972,915.10 usft	Latitude: 33° 40' 18.361 N
From: Map	Easting:	786,911.90 usft	Longitude: 103° 31' 34.139 W
Position Uncertainty:	0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.45 °

Well	Jennifer Chaveroo SAU #2H		
Well Position	+N/-S	0.00 usft	Northing: 972,913.70 usft
	+E/-W	0.00 usft	Easting: 786,881.50 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
			Latitude: 33° 40' 18.350 N
			Longitude: 103° 31' 34.499 W
			Ground Level: 4,323.00 usft

Wellbore	#2H OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/19/18	6.87	61.36	48,632.01500889

Design	#2H OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.36	

Survey Program	Date 01/13/19				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
146.00	4,951.00	Survey #1 (#2H OH)	MWD	MWD - Standard	
5,062.00	9,457.00	Survey #2 (#2H OH)	MWD	MWD - Standard	
9,542.00	9,542.00	Projection (#2H OH)	ZERO-ERROR	Zero Error	

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	
JCSAU #2H SL										
146.00	0.30	336.70	146.00	0.35	-0.15	-0.35	0.21	0.21	0.00	
238.00	0.20	351.70	238.00	0.73	-0.27	-0.73	0.13	-0.11	16.30	
330.00	1.10	40.00	329.99	1.57	0.27	-1.56	1.06	0.98	52.50	
422.00	2.10	22.20	421.96	3.80	1.48	-3.79	1.20	1.09	-19.35	
515.00	3.30	6.10	514.85	8.04	2.41	-8.02	1.51	1.29	-17.31	
607.00	4.90	2.90	606.61	14.60	2.89	-14.57	1.76	1.74	-3.48	
699.00	6.30	359.70	698.17	23.57	3.06	-23.54	1.56	1.52	-3.48	

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Site:	JC SAU 1-2 Pad	MD Reference:	GL+KB @ 4339.00usft (Norton #6)
Well:	Jennifer Chaveroo SAU #2H	North Reference:	Grid
Wellbore:	#2H OH	Survey Calculation Method:	Minimum Curvature
Design:	#2H OH	Database:	EDM 5k-14

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)	
791.00	8.10	358.50	789.44	35.10	2.86	-35.07	1.96	1.96	-1.30	
884.00	9.00	359.60	881.41	48.92	2.64	-48.89	0.98	0.97	1.18	
975.00	9.50	358.90	971.23	63.55	2.45	-63.52	0.56	0.55	-0.77	
1,068.00	10.20	357.60	1,062.85	79.45	1.96	-79.43	0.79	0.75	-1.40	
1,160.00	10.70	358.50	1,153.33	96.13	1.39	-96.11	0.57	0.54	0.98	
1,252.00	10.80	358.00	1,243.71	113.28	0.87	-113.26	0.15	0.11	-0.54	
1,345.00	10.60	353.60	1,335.10	130.49	-0.39	-130.49	0.90	-0.22	-4.73	
1,437.00	9.80	355.20	1,425.64	146.70	-1.99	-146.71	0.92	-0.87	1.74	
1,532.00	9.60	1.00	1,519.29	162.68	-2.53	-162.70	1.05	-0.21	6.11	
1,626.00	9.60	3.40	1,611.97	178.34	-1.93	-178.35	0.43	0.00	2.55	
1,719.00	9.50	1.00	1,703.68	193.75	-1.33	-193.76	0.44	-0.11	-2.58	
1,815.00	10.00	1.30	1,798.30	210.01	-1.00	-210.01	0.52	0.52	0.31	
1,910.00	10.00	358.90	1,891.85	226.50	-0.98	-226.50	0.44	0.00	-2.53	
1,988.00	10.20	359.60	1,968.64	240.18	-1.15	-240.18	0.30	0.26	0.90	
2,039.00	10.59	358.76	2,018.81	249.38	-1.29	-249.38	0.83	0.77	-1.64	
9 5/8"										
2,117.00	11.20	357.60	2,095.40	264.12	-1.76	-264.12	0.83	0.78	-1.49	
2,209.00	9.50	0.10	2,185.90	280.64	-2.12	-280.64	1.91	-1.85	2.72	
2,301.00	8.40	359.00	2,276.78	294.95	-2.22	-294.96	1.21	-1.20	-1.20	
2,393.00	8.10	358.30	2,367.83	308.15	-2.53	-308.16	0.34	-0.33	-0.76	
2,485.00	8.10	358.70	2,458.91	321.11	-2.87	-321.12	0.06	0.00	0.43	
2,577.00	8.10	359.20	2,549.99	334.07	-3.11	-334.08	0.08	0.00	0.54	
2,670.00	8.30	0.30	2,642.04	347.33	-3.17	-347.34	0.27	0.22	1.18	
2,762.00	7.80	1.20	2,733.13	360.21	-3.00	-360.22	0.56	-0.54	0.98	
2,854.00	7.70	2.00	2,824.29	372.61	-2.65	-372.62	0.16	-0.11	0.87	
2,947.00	7.40	359.80	2,916.49	384.83	-2.46	-384.83	0.45	-0.32	-2.37	
3,042.00	8.30	357.30	3,010.60	397.80	-2.80	-397.80	1.01	0.95	-2.63	
3,136.00	7.80	356.60	3,103.67	410.94	-3.50	-410.95	0.54	-0.53	-0.74	
3,231.00	8.90	352.50	3,197.66	424.66	-4.84	-424.69	1.32	1.16	-4.32	
3,325.00	8.80	351.70	3,290.54	438.99	-6.83	-439.03	0.17	-0.11	-0.85	
3,420.00	8.40	349.90	3,384.47	453.01	-9.10	-453.08	0.51	-0.42	-1.89	
3,452.00	7.60	346.60	3,416.16	457.37	-10.00	-457.45	2.88	-2.50	-10.31	
3,483.00	5.70	345.90	3,446.95	460.86	-10.85	-460.95	6.13	-6.13	-2.26	
3,515.00	2.90	352.00	3,478.86	463.20	-11.35	-463.30	8.85	-8.75	19.06	
3,547.00	0.90	70.10	3,510.84	464.09	-11.22	-464.18	8.92	-6.25	244.06	
3,578.00	2.60	133.70	3,541.83	463.68	-10.48	-463.77	7.56	5.48	205.16	
3,609.00	4.70	151.60	3,572.77	462.08	-9.37	-462.16	7.63	6.77	57.74	
3,641.00	7.00	164.60	3,604.60	459.05	-8.23	-459.11	8.25	7.19	40.63	
3,672.00	9.50	171.70	3,635.28	454.69	-7.36	-454.75	8.69	8.06	22.90	
3,704.00	12.00	174.80	3,666.71	448.77	-6.68	-448.81	8.02	7.81	9.69	
3,735.00	14.60	176.90	3,696.88	441.65	-6.17	-441.70	8.53	8.39	6.77	
3,766.00	16.80	176.80	3,726.72	433.28	-5.71	-433.32	7.10	7.10	-0.32	
3,797.00	18.90	176.90	3,756.23	423.79	-5.19	-423.82	6.77	6.77	0.32	

Titan Directional Drilling

Survey Report

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Project:	Permian NM E83	TVD Reference:	GL+KB @ 4339.00usft (Norton #6)
Site:	JC SAU 1-2 Pad	MD Reference:	GL+KB @ 4339.00usft (Norton #6)
Well:	Jennifer Chaveroo SAU #2H	North Reference:	Grid
Wellbore:	#2H OH	Survey Calculation Method:	Minimum Curvature
Design:	#2H OH	Database:	EDM 5k-14

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)
3,829.00	21.50	177.10	3,786.26	412.76	-4.61	-412.78	8.13	8.13	0.63
3,860.00	24.20	177.60	3,814.82	400.73	-4.06	-400.75	8.73	8.71	1.61
3,892.00	27.10	178.30	3,843.66	386.89	-3.57	-386.91	9.11	9.06	2.19
3,924.00	30.20	179.00	3,871.74	371.56	-3.21	-371.57	9.74	9.69	2.19
3,955.00	33.20	179.00	3,898.12	355.27	-2.93	-355.28	9.68	9.68	0.00
3,986.00	36.20	178.80	3,923.60	337.63	-2.59	-337.64	9.68	9.68	-0.65
4,018.00	39.30	177.80	3,948.90	318.05	-2.00	-318.05	9.87	9.69	-3.13
4,050.00	42.00	177.10	3,973.17	297.23	-1.07	-297.22	8.56	8.44	-2.19
4,081.00	44.10	177.30	3,995.83	276.09	-0.04	-276.07	6.79	6.77	0.65
4,112.00	47.10	178.00	4,017.51	253.96	0.87	-253.94	9.81	9.68	2.26
4,143.00	50.10	178.70	4,038.01	230.72	1.53	-230.69	9.82	9.68	2.26
4,175.00	52.80	179.60	4,057.95	205.70	1.90	-205.67	8.72	8.44	2.81
4,182.00	53.48	179.67	4,062.15	200.10	1.94	-200.07	9.71	9.68	1.00
5 1/2" •									
4,206.00	55.80	179.90	4,076.04	180.53	2.01	-180.50	9.71	9.68	0.96
4,227.00	57.56	180.17	4,087.58	162.98	2.00	-162.95	8.46	8.39	1.30
Tangent Start									
4,237.00	58.40	180.30	4,092.88	154.50	1.96	-154.47	8.46	8.39	1.26
4,269.00	58.50	180.30	4,109.62	127.24	1.82	-127.21	0.31	0.31	0.00
4,301.00	58.10	180.20	4,126.44	100.01	1.70	-99.98	1.28	-1.25	-0.31
4,332.00	58.30	179.90	4,142.77	73.66	1.68	-73.64	1.05	0.65	-0.97
4,364.00	58.40	180.00	4,159.56	46.42	1.70	-46.40	0.41	0.31	0.31
4,395.00	58.10	179.90	4,175.88	20.06	1.73	-20.04	1.01	-0.97	-0.32
4,413.00	58.44	179.84	4,185.34	4.75	1.76	-4.73	1.89	1.87	-0.31
7" •									
4,427.00	58.70	179.80	4,192.64	-7.19	1.80	7.21	1.89	1.88	-0.31
4,438.00	59.66	180.05	4,198.28	-16.64	1.81	16.66	8.93	8.71	2.30
Tangent End									
4,458.00	61.40	180.50	4,208.12	-34.05	1.72	34.07	8.93	8.71	2.24
4,461.20	61.76	180.50	4,209.64	-36.87	1.70	36.88	11.25	11.25	0.00
S36 Entry - JCSAU #2H S36 Entry									
4,490.00	65.00	180.50	4,222.54	-62.61	1.48	62.62	11.25	11.25	0.00
4,521.00	68.80	180.30	4,234.70	-91.12	1.28	91.13	12.27	12.26	-0.65
4,553.00	72.70	180.30	4,245.25	-121.32	1.12	121.33	12.19	12.19	0.00
4,585.00	76.70	179.90	4,253.70	-152.18	1.07	152.18	12.56	12.50	-1.25
4,616.00	79.80	179.40	4,260.01	-182.53	1.25	182.53	10.12	10.00	-1.61
4,648.00	82.10	179.40	4,265.04	-214.12	1.58	214.13	7.19	7.19	0.00
4,679.00	86.00	179.00	4,268.25	-244.95	2.01	244.96	12.65	12.58	-1.29
4,711.00	89.30	179.00	4,269.57	-276.91	2.57	276.92	10.31	10.31	0.00
4,743.00	90.50	178.90	4,269.62	-308.91	3.16	308.92	3.76	3.75	-0.31
4,775.00	90.70	178.90	4,269.29	-340.90	3.77	340.92	0.63	0.63	0.00
4,806.00	90.80	178.90	4,268.88	-371.89	4.37	371.92	0.32	0.32	0.00
4,838.00	90.20	178.50	4,268.60	-403.88	5.09	403.91	2.25	-1.88	-1.25
4,951.00	90.10	178.50	4,268.31	-516.84	8.05	516.90	0.09	-0.09	0.00
5,062.00	91.12	178.80	4,267.12	-627.80	10.67	627.88	0.96	0.92	0.27

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Well:	Jennifer Chaveroo SAU #2H	North Reference:	Grid
Wellbore:	#2H OH	Survey Calculation Method:	Minimum Curvature
Design:	#2H OH	Database:	EDM 5k-14

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)
5,157.00	90.28	179.06	4,265.96	-722.78	12.44	722.87	0.93	-0.88	0.27
5,251.00	90.29	179.25	4,265.50	-816.77	13.83	816.87	0.20	0.01	0.20
5,345.00	90.90	179.62	4,264.52	-910.76	14.75	910.86	0.76	0.65	0.39
5,440.00	88.88	178.93	4,264.70	-1,005.74	15.96	1,005.86	2.25	-2.13	-0.73
5,535.00	89.38	179.03	4,266.14	-1,100.72	17.65	1,100.84	0.54	0.53	0.11
5,631.00	89.22	179.28	4,267.32	-1,196.70	19.06	1,196.84	0.31	-0.17	0.26
5,726.00	89.21	178.97	4,268.62	-1,291.68	20.51	1,291.83	0.33	-0.01	-0.33
5,821.00	88.93	178.81	4,270.16	-1,386.65	22.35	1,386.81	0.34	-0.29	-0.17
5,916.00	89.66	179.11	4,271.33	-1,481.63	24.08	1,481.80	0.83	0.77	0.32
6,011.00	90.62	179.61	4,271.10	-1,576.62	25.14	1,576.80	1.14	1.01	0.53
6,107.00	88.20	179.39	4,272.09	-1,672.60	25.98	1,672.79	2.53	-2.52	-0.23
6,201.00	88.26	179.98	4,274.99	-1,766.55	26.49	1,766.74	0.63	0.06	0.63
6,294.00	89.21	179.99	4,277.04	-1,859.53	26.52	1,859.71	1.02	1.02	0.01
6,386.00	89.38	179.32	4,278.17	-1,951.52	27.07	1,951.70	0.75	0.18	-0.73
6,478.00	90.06	179.92	4,278.62	-2,043.52	27.68	2,043.70	0.99	0.74	0.65
6,571.00	90.28	179.79	4,278.35	-2,136.52	27.92	2,136.70	0.27	0.24	-0.14
6,663.00	89.38	179.56	4,278.62	-2,228.51	28.44	2,228.69	1.01	-0.98	-0.25
6,755.00	89.50	180.01	4,279.52	-2,320.51	28.78	2,320.69	0.51	0.13	0.49
6,847.00	90.06	179.76	4,279.87	-2,412.51	28.97	2,412.68	0.67	0.61	-0.27
6,939.00	90.98	180.31	4,279.04	-2,504.50	28.91	2,504.67	1.17	1.00	0.60
7,031.00	89.44	180.72	4,278.70	-2,596.50	28.08	2,596.65	1.73	-1.67	0.45
7,123.00	89.38	180.17	4,279.65	-2,688.49	27.37	2,688.63	0.60	-0.07	-0.60
7,216.00	89.78	180.28	4,280.33	-2,781.48	27.00	2,781.61	0.45	0.43	0.12
7,308.00	90.11	181.49	4,280.42	-2,873.47	25.58	2,873.58	1.36	0.36	1.32
7,400.00	88.71	181.62	4,281.37	-2,965.43	23.09	2,965.50	1.53	-1.52	0.14
7,493.00	88.04	181.77	4,284.00	-3,058.35	20.34	3,058.39	0.74	-0.72	0.16
7,585.00	88.09	180.22	4,287.11	-3,150.28	18.74	3,150.30	1.68	0.05	-1.68
7,680.00	88.65	180.58	4,289.81	-3,245.24	18.08	3,245.24	0.70	0.59	0.38
7,776.00	88.71	179.21	4,292.02	-3,341.21	18.25	3,341.21	1.43	0.06	-1.43
7,871.00	89.05	178.95	4,293.88	-3,436.18	19.78	3,436.19	0.45	0.36	-0.27
7,966.00	89.10	179.14	4,295.41	-3,531.16	21.36	3,531.18	0.21	0.05	0.20
8,061.00	88.65	179.42	4,297.28	-3,626.13	22.56	3,626.16	0.56	-0.47	0.29
8,156.00	88.21	179.09	4,299.88	-3,721.09	23.79	3,721.12	0.58	-0.46	-0.35
8,251.00	88.37	179.07	4,302.72	-3,816.03	25.32	3,816.08	0.17	0.17	-0.02
8,346.00	88.99	179.20	4,304.91	-3,911.00	26.75	3,911.05	0.67	0.65	0.14
8,441.00	88.54	179.24	4,306.95	-4,005.96	28.04	4,006.03	0.48	-0.47	0.04
8,537.00	89.16	178.95	4,308.88	-4,101.93	29.56	4,102.01	0.71	0.65	-0.30
8,632.00	88.99	179.02	4,310.41	-4,196.90	31.24	4,196.99	0.19	-0.18	0.07
8,728.00	89.72	181.61	4,311.49	-4,292.89	30.71	4,292.97	2.80	0.76	2.70
8,824.00	89.16	178.29	4,312.43	-4,388.87	30.80	4,388.94	3.51	-0.58	-3.46
8,920.00	88.99	178.97	4,313.98	-4,484.83	33.09	4,484.92	0.73	-0.18	0.71
9,015.00	88.49	178.15	4,316.07	-4,579.78	35.48	4,579.89	1.01	-0.53	-0.86
9,109.00	89.16	178.31	4,318.00	-4,673.71	38.38	4,673.85	0.73	0.71	0.17

Titan Directional Drilling

Survey Report

Company:	Ridgeway Arizona Oil Corp.	Local Co-ordinate Reference:	Well Jennifer Chaveroo SAU #2H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 4339.00usft (Norton #6)
Site:	JC SAU 1-2 Pad	MD Reference:	GL+KB @ 4339.00usft (Norton #6)
Well:	Jennifer Chaveroo SAU #2H	North Reference:	Grid
Wellbore:	#2H OH	Survey Calculation Method:	Minimum Curvature
Design:	#2H OH	Database:	EDM:5k-14

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)
9,203.00	90.93	178.69	4,317.93	-4,767.67	40.84	4,767.83	1.93	1.88	0.40
9,299.00	90.91	179.40	4,316.38	-4,863.65	42.44	4,863.82	0.74	-0.02	0.74
9,394.00	90.94	180.16	4,314.85	-4,958.63	42.81	4,958.80	0.80	0.03	0.80
9,438.90	90.75	180.41	4,314.19	-5,003.53	42.58	5,003.69	0.70	-0.43	0.56
330' Exit - JCSAU #2H 330' Exit									
9,457.00	90.67	180.51	4,313.96	-5,021.63	42.44	5,021.79	0.70	-0.43	0.56
9,537.00	90.67	180.51	4,313.03	-5,101.62	41.73	5,101.77	0.00	0.00	0.00
5 1/2"									
9,542.00	90.67	180.51	4,312.97	-5,106.62	41.68	5,106.77	0.00	0.00	0.00
JCSAU #2H BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
JCSAU #2H SL - hit/miss target - Shape	0.00	0.00	0.00	0.00	0.00	972,913.70	786,881.50	33° 40' 18.350 N	103° 31' 34.499 W
JCSAU #2H S36 Entry - actual wellpath hits target center - Point	0.00	0.00	4,209.64	-36.87	1.70	972,876.84	786,883.20	33° 40' 17.985 N	103° 31' 34.482 W
JCSAU #2H BHL - actual wellpath hits target center - Point	0.00	0.00	4,312.97	-5,106.62	41.68	967,807.20	786,923.18	33° 39' 27.829 N	103° 31' 34.478 W
JCSAU #2H 330'Exit - actual wellpath hits target center - Point	0.00	0.00	4,314.19	-5,003.53	42.58	967,910.28	786,924.08	33° 39' 28.849 N	103° 31' 34.458 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
2,039.00	2,018.81	9 5/8"	9-5/8	13-1/2	
4,182.00	4,062.15	5 1/2" *	5-1/2	8-3/4	
4,413.00	4,185.34	7" *	7	8-3/4	
9,537.00	4,313.03	5 1/2"	5-1/2	8-3/4	

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
4,227.00	4,087.58	162.98	2.00	Tangent Start
4,438.00	4,198.28	-16.64	1.81	Tangent End
4,461.20	4,209.64	-36.87	1.70	S36 Entry
9,438.90	4,314.19	-5,003.53	42.58	330' Exit

OCD Permitting[Home](#) [Operators](#) [Operator Details](#)**[258350] VANGUARD OPERATING, LLC****General Information**

Address:	5847 San Felipe, Suite 3000 Houston, TX 77057	Main Phone:	832-327-2252
Country:	U.S.A.	Main Fax:	832-327-2260
Operator Role(s):	Well Operator		

Quick Links

- [General Information](#)
- [Contacts](#)
- [Compliance](#)
- [Bonds](#)
- [Wells](#)
- [User List](#)
- [Review Registration \(A\)](#)

Contacts**Central Contact**

Name:	Keith Froebel	Phone Number:	832-377-2236
Title:	Vice President - Operations	Cell Number:	281-889-1241
E-Mail Address:	kfroebel@vnrenergy.com	Fax Number:	832-327-2260

Hobbs Contact

Name:	Kyle Zimmerman	Phone Number:	432-248-8150
Title:	Operations Engineer	Cell Number:	432-202-0145
E-Mail Address:	kzimmerman@vnrenergy.com	Fax Number:	432-362-2238

Artesia Contact

Name:	Kyle Zimmerman	Phone Number:	432-248-8150
Title:	Operations Engineer	Cell Number:	432-202-0145
E-Mail Address:	kzimmerman@vnrenergy.com	Fax Number:	432-362-2238

Aztec Contact

(Click here to expand.)

Santa Fe Contact

(Click here to expand.)

Compliance**Rule 5.8 Compliance**

Well Count:	900
Inactive Wells:	0
In Compliance:	Yes

Approved TA (Temporary Abandonment)

Active Well Count:	900
Approved TA Wells:	3
Expired TA Wells:	1
In Compliance:	Y

Blanket Bond(s)

Issuer:	[221] U.S. SPECIALTY INSURANCE COMPANY		
Issuer's Bond Number:	B011984	Balance:	\$250,000.00
Assurance Type:	Surety		

Current Total:

\$290,000.00

(OCD REVIEWER FOR OCD) SIGN OUT HELP

Blanket Bond for Temporarily Abandoned Wells

	Wells	Operators	Operator Data	OCD Review	OCD Only	Administration
Issuer:	[221] U.S. SPECIALTY INSURANCE COMPANY					
Issuer's Bond Number:	B011978	Amount:	\$1,000,000.00			
Assurance Type:	Surety					

Single Well Bonds

API	Bonded Location	Well ULSTR	Amount	Issuer	Cash / Surety	Issuer Bond Number	Bond Cancellation Date	Bond Redemption Date
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User List

User ID	Full Name	Title	Phone	Email	Access	Locked
cstoker	Carie A Stoker	REGULATORY AFFAIRS COORDINATOR	432-664-7659	carie@stokeroilfield.com	OPUser	False
vtompkinsvnr	Vickie Tompkins	Field Office Manager	432-362-2209	vtompkins@vnrlc.com	OPUser	False
rhicks	Randall Hicks	Sr Operations Engineer	832-377-2207	rhicks@vnrlc.com	OPUser	False
kbonhomme	Kimberly N Bonhomme	Production Accounting Lead	832-399-3757	kbonhomme@vnrlc.com	OPAdmin	False
aschelling	Anna Schelling	Regulatory Specialist	432-248-8149	aschelling@vnrlc.com	OPUser	False
tinat	TINA TAYLOR	SR. PROD ANALYST	832-399-3784	TTAYLOR@VNRLC.COM	OPUser	False
lzumbrunnen	Louise ZumBrunnen	Production Accountant	832-399-3819	lzumbrunnen@vnrenergy.com	OPUser	False

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