

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-005-29220

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

KM Chaveroo San Andres Unit

8. Well Number 202 H

9. OGRID Number
164557

10. Pool name or Wildcat
Chaveroo; San Andres (12049)

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR GOING BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
Ridgeway Arizona Oil Corp

3. Address of Operator
575 N Dairy Ashford Rd, EC II, Suite 210, Houston, TX 77079

4. Well Location

Unit Letter D : 195 feet from the N line and 1105 feet from the W line
Section 2 Township 08S Range 33E NMPM County CHAVES

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
4356' Surface

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: Directional Survey ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Attached is the final directional survey for the subject well.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE William Boyd TITLE Land & Regulatory Manager DATE 1/30/2020

Type or print name William Boyd E-mail address: wboyd@pedevco.com PHONE: (713) 574-7912
For State Use Only

Petroleum Engineer

APPROVED BY: [Signature] TITLE _____ DATE 02/08/2020
Conditions of Approval (if any): _____

Titan Directional Drilling

Survey Report

Company:	Ridgeway Arizona Oil Corp.	Local Co-ordinate Reference:	Well KM Chaveroo SAU #202H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 4372.00usft (Norton 6)
Site:	KMC SAU #202H	MD Reference:	GL+KB @ 4372.00usft (Norton 6)
Well:	KM Chaveroo SAU #202H	North Reference:	Grid
Wellbore:	#202H OH	Survey Calculation Method:	Minimum Curvature
Design:	#202H 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	KMC SAU #202H, Centered on est. stake 200'FNL, 1105'FWL		
Site Position:		Northing:	967,308.85 usft
From:	Map	Easting:	782,430.22 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	33° 39' 23.243 N
		Longitude:	103° 32' 27.675 W
		Grid Convergence:	0.44 °

Well	KM Chaveroo SAU #202H		
Well Position	+N/-S	0.00 usft	Northing: 967,308.85 usft
	+E/-W	0.00 usft	Easting: 782,430.22 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	33° 39' 23.243 N
		Longitude:	103° 32' 27.675 W
		Ground Level:	4,356.00 usft

Wellbore	#202H OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	08/14/19	6.81
			Dip Angle (°)
			61.33
			Field Strength (nT)
			48,552.66553886

Design	#202H OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			179.72

Survey Program	Date 08/27/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
145.00	9,663.00	Survey #1 (#202H OH)	MWD
9,715.00	9,715.00	Projection (#202H OH)	ZERO-ERROR
			Description
			MWD - Standard
			Zero Error

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buird 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
KMC SAU 202H SL									
145.00	0.40	257.60	145.00	-0.11	-0.49	0.11	0.28	0.28	0.00
237.00	0.30	238.90	237.00	-0.30	-1.01	0.30	0.16	-0.11	-20.33
328.00	0.60	357.40	328.00	0.05	-1.24	-0.06	0.87	0.33	130.22
419.00	2.40	11.10	418.96	2.40	-0.89	-2.40	2.00	1.98	15.05
512.00	3.90	6.50	511.82	7.45	-0.16	-7.45	1.63	1.61	-4.95
604.00	5.20	4.10	603.53	14.72	0.49	-14.71	1.43	1.41	-2.61
695.00	6.60	1.40	694.04	24.06	0.91	-24.05	1.57	1.54	-2.97
786.00	8.00	0.40	784.30	35.62	1.09	-35.61	1.54	1.54	-1.10

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Site:	KMC SAU #202H	MD Reference:	GL+KB @ 4372.00usft (Norton 6)
Well:	KM Chaveroo SAU #202H	North Reference:	Grid
Wellbore:	#202H OH	Survey Calculation Method:	Minimum Curvature
Design:	#202H 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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
877.00	9.80	2.00	874.20	49.69	1.40	-49.69	2.00	1.98	1.76
968.00	11.30	2.20	963.66	66.34	2.01	-66.33	1.65	1.65	0.22
1,059.00	12.90	6.00	1,052.64	85.36	3.42	-85.34	1.96	1.76	4.18
1,151.00	14.70	5.80	1,141.98	107.18	5.67	-107.15	1.96	1.96	-0.22
1,242.00	15.80	5.10	1,229.77	131.01	7.94	-130.97	1.23	1.21	-0.77
1,333.00	16.50	3.90	1,317.18	156.24	9.92	-156.19	0.85	0.77	-1.32
1,424.00	17.10	1.80	1,404.30	182.51	11.22	-182.45	0.94	0.66	-2.31
1,519.00	16.70	2.30	1,495.20	210.11	12.20	-210.05	0.45	-0.42	0.53
1,611.00	15.50	5.30	1,583.59	235.56	13.87	-235.49	1.59	-1.30	3.26
1,706.00	15.40	4.80	1,675.15	260.77	16.10	-260.69	0.18	-0.11	-0.53
1,800.00	15.90	3.20	1,765.67	286.06	17.86	-285.97	0.70	0.53	-1.70
1,894.00	17.10	2.90	1,855.80	312.72	19.28	-312.62	1.28	1.28	-0.32
1,989.00	17.80	4.60	1,946.43	341.14	21.15	-341.04	0.91	0.74	1.79
2,084.00	18.10	8.10	2,036.80	370.23	24.39	-370.10	1.18	0.32	3.68
2,179.00	19.00	9.90	2,126.87	400.07	29.13	-399.93	1.12	0.95	1.89
2,235.00	18.50	9.50	2,179.90	417.82	32.17	-417.65	0.92	-0.89	-0.71
2,285.00	18.25	8.48	2,227.35	433.38	34.63	-433.21	0.82	-0.50	-2.05
9 5/8"									
2,378.00	17.80	6.50	2,315.78	461.91	38.39	-461.72	0.82	-0.48	-2.13
2,470.00	16.10	2.50	2,403.79	488.63	40.53	-488.42	2.24	-1.85	-4.35
2,562.00	16.60	1.10	2,492.07	514.51	41.34	-514.30	0.69	0.54	-1.52
2,653.00	16.40	3.90	2,579.32	540.33	42.47	-540.11	0.90	-0.22	3.08
2,744.00	16.40	4.40	2,666.62	565.95	44.33	-565.73	0.16	0.00	0.55
2,834.00	16.40	2.50	2,752.96	591.31	45.85	-591.08	0.60	0.00	-2.11
2,927.00	16.40	2.00	2,842.17	617.55	46.88	-617.31	0.15	0.00	-0.54
3,021.00	16.00	5.80	2,932.44	643.70	48.66	-643.46	1.21	-0.43	4.04
3,116.00	16.10	5.00	3,023.74	669.85	51.13	-669.59	0.26	0.11	-0.84
3,209.00	16.10	4.30	3,113.09	695.56	53.22	-695.29	0.21	0.00	-0.75
3,302.00	14.70	10.80	3,202.76	720.01	56.40	-719.72	2.39	-1.51	6.99
3,397.00	14.60	10.60	3,294.67	743.62	60.86	-743.31	0.12	-0.11	-0.21
3,428.00	13.50	10.90	3,324.74	751.01	62.26	-750.70	3.56	-3.55	0.97
3,460.00	10.60	12.30	3,356.03	757.56	63.60	-757.23	9.11	-9.06	4.38
3,491.00	7.80	16.20	3,386.63	762.36	64.79	-762.03	9.25	-9.03	12.58
3,523.00	5.80	31.20	3,418.41	765.83	66.23	-765.50	8.31	-6.25	46.88
3,554.00	4.70	48.00	3,449.28	768.02	67.99	-767.68	6.06	-3.55	54.19
3,585.00	3.30	73.50	3,480.20	769.12	69.79	-768.77	7.20	-4.52	82.26
3,617.00	2.70	124.30	3,512.17	768.96	71.29	-768.60	8.22	-1.88	158.75
3,648.00	4.40	162.80	3,543.11	767.41	72.25	-767.05	9.15	5.48	124.19
3,680.00	6.70	174.90	3,574.96	764.38	72.78	-764.01	8.03	7.19	37.81
3,711.00	8.90	181.10	3,605.67	760.18	72.89	-759.81	7.59	7.10	20.00
3,743.00	11.00	184.10	3,637.19	754.66	72.63	-754.29	6.76	6.56	9.38
3,774.00	13.40	185.00	3,667.48	748.13	72.10	-747.77	7.77	7.74	2.90
3,806.00	15.70	183.70	3,698.46	740.12	71.50	-739.76	7.26	7.19	-4.06

Titan Directional Drilling

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Well:	KM Chaveroo SAU #202H	North Reference:	Grid
Wellbore:	#202H OH	Survey Calculation Method:	Minimum Curvature
Design:	#202H 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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
3,837.00	18.00	182.30	3,728.12	731.14	71.04	-730.79	7.53	7.42	-4.52
3,868.00	20.30	181.40	3,757.41	720.98	70.71	-720.62	7.48	7.42	-2.90
3,900.00	22.80	180.60	3,787.17	709.23	70.51	-708.87	7.87	7.81	-2.50
3,931.00	25.00	179.70	3,815.51	696.67	70.48	-696.32	7.19	7.10	-2.90
3,962.00	27.10	179.00	3,843.36	683.06	70.64	-682.70	6.85	6.77	-2.26
3,994.00	29.70	178.10	3,871.50	667.85	71.03	-667.49	8.23	8.13	-2.81
4,026.00	32.80	177.90	3,898.86	651.26	71.61	-650.90	9.69	9.69	-0.63
4,057.00	35.90	177.80	3,924.45	633.78	72.27	-633.42	10.00	10.00	-0.32
4,089.00	38.60	177.20	3,949.92	614.43	73.12	-614.06	8.51	8.44	-1.88
4,120.00	40.80	177.10	3,973.77	594.66	74.10	-594.28	7.10	7.10	-0.32
4,151.00	43.50	176.70	3,996.75	573.88	75.23	-573.51	8.75	8.71	-1.29
4,183.00	46.30	176.70	4,019.41	551.34	76.53	-550.95	8.75	8.75	0.00
4,214.00	49.00	177.20	4,040.29	528.46	77.75	-528.07	8.79	8.71	1.61
4,245.00	51.60	177.40	4,060.09	504.64	78.87	-504.24	8.40	8.39	0.65
4,277.00	54.40	177.60	4,079.35	479.11	79.98	-478.71	8.76	8.75	0.63
4,286.00	55.27	177.54	4,084.53	471.76	80.29	-471.36	9.69	9.68	-0.66
5 1/2" *									
4,308.00	57.40	177.40	4,096.73	453.47	81.10	-453.06	9.69	9.68	-0.64
4,329.00	58.28	177.26	4,107.91	435.71	81.93	-435.30	4.23	4.19	-0.65
Tangent Start									
4,339.00	58.70	177.20	4,113.13	427.19	82.34	-426.78	4.23	4.19	-0.64
4,371.00	59.20	177.40	4,129.64	399.81	83.63	-399.39	1.65	1.56	0.63
4,402.00	59.60	177.60	4,145.42	373.15	84.80	-372.73	1.40	1.29	0.65
4,434.00	60.10	177.90	4,161.49	345.50	85.88	-345.07	1.76	1.56	0.94
4,465.00	60.70	177.80	4,176.80	318.57	86.89	-318.13	1.96	1.94	-0.32
4,496.00	61.30	177.90	4,191.83	291.47	87.91	-291.03	1.96	1.94	0.32
4,527.00	61.90	178.00	4,206.58	264.22	88.89	-263.78	1.96	1.94	0.32
4,559.00	63.40	178.50	4,221.28	235.81	89.75	-235.37	4.89	4.69	1.56
4,561.00	63.59	178.50	4,222.17	234.02	89.80	-233.58	9.33	9.33	0.00
Tangent End									
4,588.00	66.11	178.50	4,233.65	209.59	90.44	-209.14	9.33	9.33	0.00
7" *									
4,589.00	66.20	178.50	4,234.05	208.68	90.46	-208.23	9.33	9.33	0.00
4,597.00	66.87	178.45	4,237.23	201.34	90.66	-200.89	8.46	8.44	-0.63
S2 Entry - KMC SAU 202H S2 Entry									
4,621.00	68.90	178.30	4,246.27	179.12	91.29	-178.67	8.46	8.44	-0.62
4,652.00	71.70	178.30	4,256.72	149.95	92.16	-149.49	9.03	9.03	0.00
4,683.00	74.00	178.30	4,265.86	120.34	93.04	-119.88	7.42	7.42	0.00
4,714.00	76.20	177.80	4,273.83	90.40	94.06	-89.94	7.27	7.10	-1.61
4,746.00	79.10	177.20	4,280.67	59.18	95.42	-58.71	9.25	9.06	-1.88
4,777.00	81.70	177.10	4,285.84	28.65	96.94	-28.17	8.39	8.39	-0.32
4,809.00	84.20	177.20	4,289.77	-3.07	98.52	3.55	7.82	7.81	0.31
4,841.00	86.10	177.20	4,292.47	-34.91	100.08	35.40	5.94	5.94	0.00
4,872.00	87.60	177.20	4,294.18	-65.83	101.59	66.33	4.84	4.84	0.00

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Wellbore:	#202H OH	Survey Calculation Method:	Minimum Curvature
Design:	#202H 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)
4,903.00	88.20	177.40	4,295.31	-96.77	103.05	97.28	2.04	1.94	0.65
4,935.00	88.92	177.66	4,296.12	-128.73	104.42	129.24	2.40	2.26	0.83
330' Entry - KMC SAU 202H 330' Entry									
5,036.00	91.20	178.50	4,296.01	-229.67	107.80	230.19	2.40	2.26	0.83
5,131.00	90.30	177.20	4,294.77	-324.59	111.37	325.13	1.66	-0.95	-1.37
5,223.00	89.40	176.40	4,295.01	-416.44	116.50	417.01	1.31	-0.98	-0.87
5,316.00	89.30	176.20	4,296.06	-509.24	122.50	509.84	0.24	-0.11	-0.22
5,411.00	89.00	176.20	4,297.47	-604.02	128.80	604.65	0.32	-0.32	0.00
5,505.00	87.80	175.60	4,300.10	-697.74	135.52	698.40	1.43	-1.28	-0.64
5,600.00	88.70	175.80	4,303.00	-792.43	142.64	793.12	0.97	0.95	0.21
5,695.00	89.40	176.40	4,304.57	-887.20	149.10	887.92	0.97	0.74	0.63
5,790.00	89.50	175.80	4,305.48	-981.97	155.56	982.73	0.64	0.11	-0.63
5,883.00	90.60	176.20	4,305.40	-1,074.75	162.05	1,075.53	1.26	1.18	0.43
5,976.00	90.30	175.10	4,304.67	-1,167.47	169.10	1,168.29	1.23	-0.32	-1.18
6,071.00	90.40	172.70	4,304.09	-1,261.93	179.19	1,262.79	2.53	0.11	-2.53
6,165.00	90.00	172.50	4,303.76	-1,355.14	191.30	1,356.07	0.48	-0.43	-0.21
6,260.00	90.60	174.10	4,303.27	-1,449.49	202.38	1,450.47	1.80	0.63	1.68
6,354.00	90.60	176.20	4,302.28	-1,543.14	210.33	1,544.16	2.23	0.00	2.23
6,446.00	89.30	177.40	4,302.36	-1,634.99	215.47	1,636.04	1.92	-1.41	1.30
6,538.00	89.30	177.40	4,303.49	-1,726.89	219.64	1,727.95	0.00	0.00	0.00
6,629.00	89.80	177.80	4,304.20	-1,817.81	223.45	1,818.89	0.70	0.55	0.44
6,720.00	89.90	179.30	4,304.44	-1,908.78	225.75	1,909.87	1.65	0.11	1.65
6,813.00	90.30	179.30	4,304.28	-2,001.77	226.89	2,002.86	0.43	0.43	0.00
6,905.00	88.90	178.50	4,304.92	-2,093.75	228.65	2,094.85	1.75	-1.52	-0.87
6,996.00	89.20	178.60	4,306.43	-2,184.71	230.96	2,185.82	0.35	0.33	0.11
7,087.00	89.90	177.90	4,307.14	-2,275.66	233.73	2,276.78	1.09	0.77	-0.77
7,178.00	89.60	179.50	4,307.54	-2,366.63	235.80	2,367.77	1.79	-0.33	1.76
7,269.00	90.60	180.00	4,307.38	-2,457.63	238.20	2,458.76	1.23	1.10	0.55
7,361.00	90.30	179.90	4,306.66	-2,549.63	238.28	2,550.76	0.34	-0.33	-0.11
7,453.00	88.80	177.40	4,307.38	-2,641.59	238.44	2,642.73	3.17	-1.63	-2.72
7,544.00	89.30	177.10	4,308.89	-2,732.47	242.81	2,733.63	0.64	0.55	-0.33
7,634.00	89.50	178.60	4,309.83	-2,822.40	246.19	2,823.58	1.68	0.22	1.67
7,725.00	88.90	180.90	4,311.10	-2,913.38	246.58	2,914.56	2.61	-0.66	2.53
7,820.00	90.20	182.00	4,311.85	-3,008.35	244.18	3,009.51	1.79	1.37	1.16
7,913.00	88.80	181.30	4,312.66	-3,101.30	241.50	3,102.45	1.68	-1.51	-0.75
8,008.00	88.80	179.30	4,314.65	-3,196.28	241.00	3,197.42	2.10	0.00	-2.11
8,103.00	89.10	178.60	4,316.39	-3,291.24	242.74	3,292.40	0.80	0.32	-0.74
8,196.00	89.30	178.80	4,317.69	-3,384.21	244.85	3,385.37	0.30	0.22	0.22
8,290.00	90.00	178.10	4,318.26	-3,478.17	247.40	3,479.35	1.05	0.74	-0.74
8,385.00	87.60	177.80	4,320.25	-3,573.08	250.79	3,574.28	2.55	-2.53	-0.32
8,478.00	88.40	179.00	4,323.50	-3,665.99	253.39	3,667.19	1.55	0.86	1.29
8,571.00	89.90	180.00	4,324.88	-3,758.97	254.20	3,760.18	1.94	1.61	1.08
8,665.00	89.20	180.60	4,325.62	-3,852.97	253.71	3,854.17	0.98	-0.74	0.64
8,759.00	89.10	180.90	4,327.01	-3,946.95	252.48	3,948.14	0.34	-0.11	0.32

Titan Directional Drilling

Survey Report

Company:	Ridgeway Arizona Oil Corp.	Local Co-ordinate Reference:	Well KM Chaveroo SAU #202H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 4372.00usft (Norton 6)
Site:	KMC SAU #202H	MD Reference:	GL+KB @ 4372.00usft (Norton 6)
Well:	KM Chaveroo SAU #202H	North Reference:	Grid
Wellbore:	#202H OH	Survey Calculation Method:	Minimum Curvature
Design:	#202H 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)	
8,853.00	90.10	180.90	4,327.67	-4,040.93	251.00	4,042.12	1.06	1.06	0.00	
8,947.00	90.90	181.30	4,326.85	-4,134.91	249.20	4,136.09	0.95	0.85	0.43	
9,041.00	89.70	179.70	4,326.36	-4,228.90	248.38	4,230.07	2.13	-1.28	-1.70	
9,135.00	89.70	179.70	4,326.85	-4,322.90	248.87	4,324.07	0.00	0.00	0.00	
9,229.00	90.50	179.90	4,326.68	-4,416.90	249.20	4,418.07	0.88	0.85	0.21	
9,323.00	89.90	179.70	4,326.36	-4,510.90	249.52	4,512.07	0.67	-0.64	-0.21	
9,418.00	88.80	180.00	4,327.43	-4,605.89	249.77	4,607.06	1.20	-1.16	0.32	
9,512.00	90.00	180.00	4,328.42	-4,699.88	249.77	4,701.05	1.28	1.28	0.00	
9,565.00	89.66	179.61	4,328.57	-4,752.88	249.96	4,754.05	0.98	-0.64	-0.74	
330° Exit - KMC SAU 202H 330°Exit										
9,606.00	89.40	179.30	4,328.91	-4,793.88	250.35	4,795.05	0.98	-0.64	-0.74	
9,663.00	88.90	179.30	4,329.76	-4,850.87	251.04	4,852.04	0.88	-0.88	0.00	
9,695.00	88.90	179.30	4,330.37	-4,882.86	251.43	4,884.04	0.00	0.00	0.00	
5 1/2"										
9,715.00	88.90	179.30	4,330.75	-4,902.85	251.68	4,904.03	0.00	0.00	0.00	
KMC SAU 202H BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
KMC SAU 202H SL	0.00	0.00	0.00	0.00	0.00	967,308.85	782,430.22	33° 39' 23.243 N		103° 32' 27.675 W
- hit/miss target										
- Shape										
- actual wellpath hits target center										
- Point										
KMC SAU 202H S2 Entr	0.00	0.00	4,237.23	201.34	90.66	967,510.18	782,520.88	33° 39' 25.228 N		103° 32' 26.584 W
- actual wellpath hits target center										
- Point										
KMC SAU 202H 330°Ent	0.00	0.00	4,296.12	-128.73	104.42	967,180.12	782,534.64	33° 39' 21.962 N		103° 32' 26.451 W
- actual wellpath hits target center										
- Point										
KMC SAU 202H 330°Exi	0.00	0.00	4,328.57	-4,752.88	249.96	962,556.08	782,680.17	33° 38' 36.206 N		103° 32' 25.149 W
- actual wellpath hits target center										
- Point										
KMC SAU 202H BHL	0.00	0.00	4,330.75	-4,902.85	251.68	962,406.11	782,681.89	33° 38' 34.722 N		103° 32' 25.142 W
- actual wellpath hits target center										
- Point										

Titan Directional Drilling

Survey Report

Company:	Ridgeway Arizona Oil Corp.	Local Co-ordinate Reference:	Well KM Chaveroo SAU #202H
Project:	Permian NM E'83	TVD Reference:	GL+KB @ 4372.00usft (Norton 6)
Site:	KMC SAU #202H	MD Reference:	GL+KB @ 4372.00usft (Norton 6)
Well:	KM Chaveroo SAU #202H	North Reference:	Grid
Wellbore:	#202H OH	Survey Calculation Method:	Minimum Curvature
Design:	#202H OH	Database:	EDM 5k-14

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
2,285.00	2,227.35	9 5/8"	9-5/8	13-1/2	
4,286.00	4,084.53	5 1/2" *	5-1/2	8-3/4	
4,588.00	4,233.65	7" *	7	8-3/4	
9,695.00	4,330.37	5 1/2"	5-1/2	8-3/4	

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,329.00	4,107.91	435.71	81.93	Tangent Start
4,561.00	4,222.17	234.02	89.80	Tangent End
4,597.00	4,237.23	201.34	90.66	S2 Entry
4,935.00	4,296.12	-128.73	104.42	330' Entry
9,565.00	4,328.57	-4,752.88	249.96	330' Exit