

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011

Permit 300814

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address RIDGEWAY ARIZONA OIL CORP. 575 N. Dairy Ashford Houston, TX 77079		2. OGRID Number 164557
		3. API Number 30-005-29224
4. Property Code 331682	5. Property Name STATE COM	6. Well No. 402H

7. Surface Location

UL - Lot C	Section 9	Township 08S	Range 33E	Lot Idn C	Feet From 920	N/S Line N	Feet From 1480	E/W Line W	County Chaves
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8. Proposed Bottom Hole Location

UL - Lot D	Section 4	Township 08S	Range 33E	Lot Idn D	Feet From 50	N/S Line N	Feet From 1320	E/W Line W	County Chaves
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9. Pool Information

CHAVEROO;SAN ANDRES	12049
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 4420
16. Multiple N	17. Proposed Depth 10065	18. Formation San Andres	19. Contractor	20. Spud Date 11/1/2021
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	13.5	9.625	36	2300	1480	0
Prod	8.75	5.5	20	10065	2336	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	3M Shaffer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Kay R Howton	Approved By: Paul F Kautz	
Title: Office Manager & Regulatory Specialist	Title: Geologist	
Email Address: khowton@pedevco.com	Approved Date: 11/2/2021	Expiration Date: 11/2/2023
Date: 10/15/2021	Phone: 713-574-7908	Conditions of Approval Attached

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DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3400 Fax: (505) 476-3462State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-005-29224	Pool Code 12049	Pool Name CHAVEROO;SAN ANDRES
Property Code 331682	Property Name STATE COM	Well Number 402H
OGRID No. 164557	Operator Name RIDGEWAY ARIZONA OIL CORP.	Elevation 4420'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	9	8 S	33 E		920	NORTH	1480	WEST	CHAVES

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	4	8 S	33 E		50	NORTH	1320	WEST	CHAVES
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

BOTTOM HOLE LOCATION Lat - N 33.656680° Long - W 103.575203° NMSPCE- N 967312.4 E 772028.1 (NAD-83) LAST TAKE POINT 100' FNL & 1320' FWL Lat - N 33.656543° Long - W 103.575204° NMSPCE- N 967262.4 E 772028.3 (NAD-83) FIRST TAKE POINT 100' FSL & 1320' FWL Lat - N 33.642576° Long - W 103.575255° NMSPCE- N 962179.9 E 772049.7 (NAD-83) SURFACE LOCATION Lat - N 33.639773° Long - W 103.574732° NMSPCE- N 961161.3 E 772216.5 (NAD-83)		OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>William Boyd</u> Date: <u>10/13/21</u> Printed Name: <u>William Boyd</u> Email Address: <u>wboycepedevco.com</u> SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date Surveyed: <u>10/12/2021</u> Signature & Seal of Professional Surveyor: <u>[Signature]</u> Certificate Number: <u>7977</u> Scale: 1" = 2000' WO Num.: 35421
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Comments

Permit 300814

PERMIT COMMENTS

Operator Name and Address: RIDGEWAY ARIZONA OIL CORP. [164557] 575 N. Dairy Ashford Houston, TX 77079		API Number: 30-005-29224
		Well: STATE COM #402H
Created By	Comment	Comment Date
williamboyd	ACOI 201929 Signed effective 10/7/2021	10/15/2021

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1220 S. St Francis Dr.
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Form APD Conditions

Permit 300814

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: RIDGEWAY ARIZONA OIL CORP. [164557] 575 N. Dairy Ashford Houston, TX 77079	API Number: 30-005-29224
	Well: STATE COM #402H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and production strings of casing

BOTTOM HOLE LOCATION
 Lat - N 33.656680°
 Long - W 103.575203°
 NMSPCE- N 967312.4
 E 772028.1
 (NAD-83)

LAST TAKE POINT
100' FNL & 1320' FWL
 Lat - N 33.656543°
 Long - W 103.575204°
 NMSPCE- N 967262.4
 E 772028.3
 (NAD-83)

FIRST TAKE POINT
100' FSL & 1320' FWL
 Lat - N 33.642576°
 Long - W 103.575255°
 NMSPCE- N 962179.9
 E 772049.7
 (NAD-83)

SURFACE LOCATION
 Lat - N 33.639773°
 Long - W 103.574732°
 NMSPCE- N 961161.3
 E 772216.5
 (NAD-83)

N.: 967347.7
 E.: 770707.9
 NAD 83

N.: 962070.3
 E.: 770730.2
 NAD 83

N.: 956791.7
 E.: 770768.6
 NAD 83

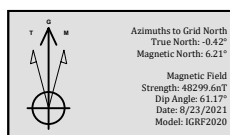
N.: 967406.9
 E.: 776021.2
 NAD 83

N.: 962109.1
 E.: 776036.4
 NAD 83

Ridgeway Arizona Oil Corp

DrilTech, LLC

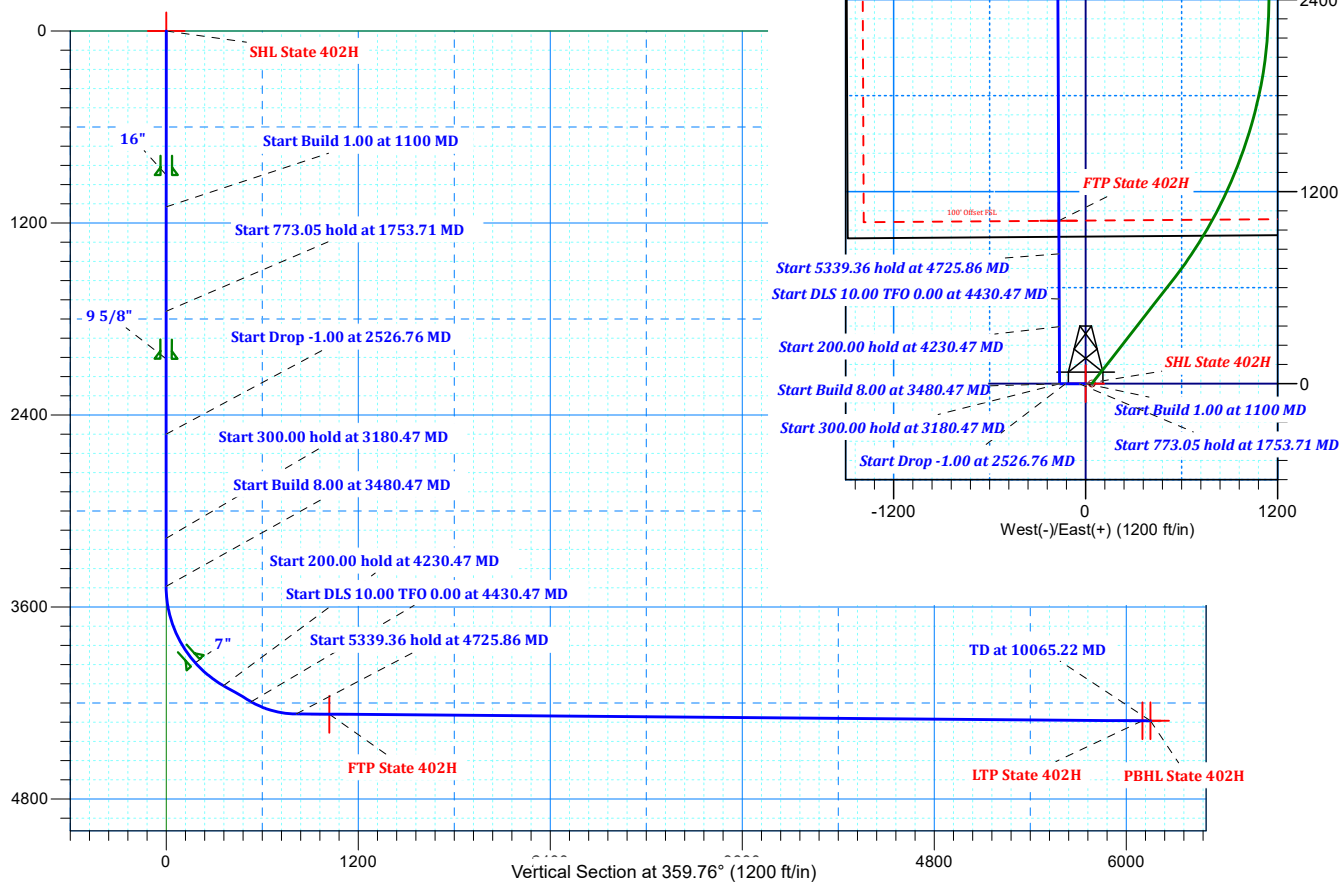
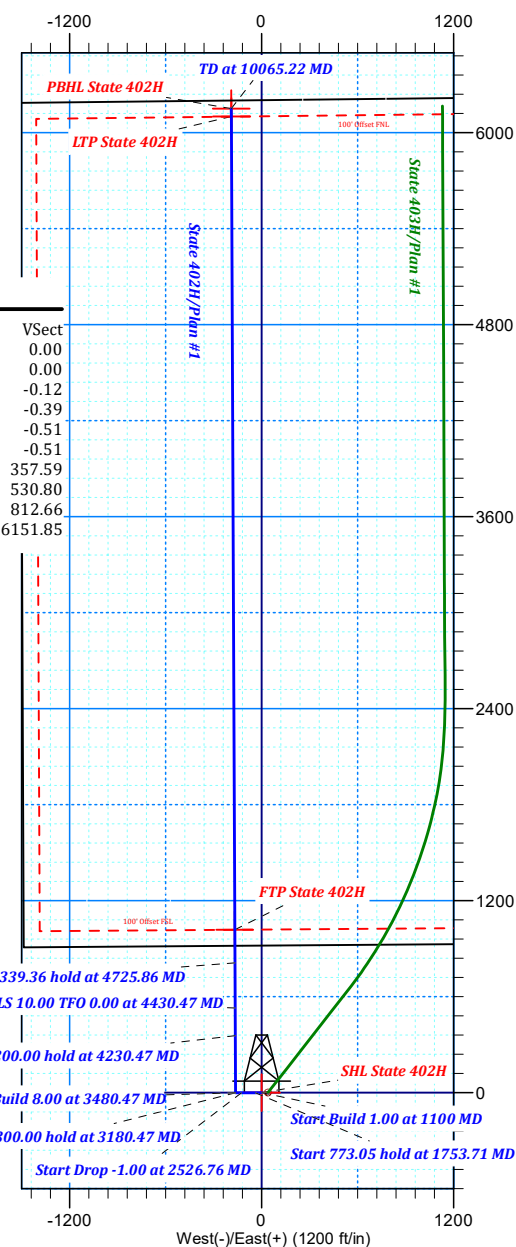
Ridgeway Arizona Oil Corp
State 402H
Wellbore #1
Plan #1



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00
1753.71	6.54	269.58	1752.29	-0.27	-37.25	1.00	269.58	-0.12
2526.76	6.54	269.58	2520.32	-0.92	-125.26	0.00	0.00	-0.39
3180.47	0.00	0.00	3172.61	-1.19	-162.51	1.00	180.00	-0.51
3480.47	0.00	0.00	3472.61	-1.19	-162.51	0.00	0.00	-0.51
4230.47	60.00	359.76	4092.86	356.91	-164.01	8.00	359.76	357.59
4430.47	60.00	359.76	4192.86	530.11	-164.73	0.00	0.00	530.80
4725.86	89.54	359.76	4269.60	811.97	-165.92	10.00	0.00	812.66
10065.22	89.54	359.76	4312.60	6151.11	-188.40	0.00	0.00	6151.85

SURFACE LOCATION			
US State Plane 1983 New Mexico Eastern Zone			
Elevation: GL 4420' + RKB 13' @ 4433.00ft			
Northing	Easting	Latitude	Longitude
961161.30	772216.50	33° 38' 23.184 N	103° 34' 29.036 W



Ridgeway Arizona Oil Corp

Chaves County , NM (NAD83)

State 402H

State 402H

Wellbore #1

Plan: Plan #1

Standard Planning Report

23 August, 2021

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site State 402H
Company:	Ridgeway Arizona Oil Corp	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Project:	Chaves County , NM (NAD83)	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site:	State 402H	North Reference:	Grid
Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

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

Site		State 402H				
Site Position:		Northing:	961,161.30	usft	Latitude:	33° 38' 23.184 N
From:	Map	Easting:	772,216.50	usft	Longitude:	103° 34' 29.036 W
Position Uncertainty:		0.00	ft	Slot Radius:	13.200	in

Well	State 402H						
Well Position	+N/-S	0.00 ft	Northing:	961,161.30	usft	Latitude:	33° 38' 23.184 N
	+E/-W	0.00 ft	Easting:	772,216.50	usft	Longitude:	103° 34' 29.036 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		ft	Ground Level:	4,420.00 ft
Grid Convergence:		0.42 °					

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/23/2021	6.63	61.17	48,299.57201401

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.76

Plan Survey Tool Program	Date	8/23/2021		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	10,065.22	Plan #1 (Wellbore #1)	MWD
				MWD - Standard

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site State 402H
Company:	Ridgeway Arizona Oil Corp	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Project:	Chaves County , NM (NAD83)	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site:	State 402H	North Reference:	Grid
Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,753.71	6.54	269.58	1,752.29	-0.27	-37.25	1.00	1.00	0.00	269.58	
2,526.76	6.54	269.58	2,520.32	-0.92	-125.26	0.00	0.00	0.00	0.00	
3,180.47	0.00	0.01	3,172.61	-1.19	-162.51	1.00	-1.00	0.00	180.00	
3,480.47	0.00	0.01	3,472.61	-1.19	-162.51	0.00	0.00	0.00	0.01	
4,230.47	60.00	359.76	4,092.86	356.91	-164.01	8.00	8.00	0.00	359.76	
4,430.47	60.00	359.76	4,192.86	530.11	-164.73	0.00	0.00	0.00	0.00	
4,725.86	89.54	359.76	4,269.60	811.97	-165.92	10.00	10.00	0.00	0.00	
10,065.22	89.54	359.76	4,312.60	6,151.11	-188.40	0.00	0.00	0.00	0.00	PBHL State 402H

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site State 402H
Company:	Ridgeway Arizona Oil Corp	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Project:	Chaves County , NM (NAD83)	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site:	State 402H	North Reference:	Grid
Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
16"									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.00 at 1100 MD									
1,200.00	1.00	269.58	1,199.99	-0.01	-0.87	0.00	1.00	1.00	0.00
1,300.00	2.00	269.58	1,299.96	-0.03	-3.49	-0.01	1.00	1.00	0.00
1,400.00	3.00	269.58	1,399.86	-0.06	-7.85	-0.02	1.00	1.00	0.00
1,500.00	4.00	269.58	1,499.68	-0.10	-13.96	-0.04	1.00	1.00	0.00
1,600.00	5.00	269.58	1,599.37	-0.16	-21.80	-0.07	1.00	1.00	0.00
1,700.00	6.00	269.58	1,698.90	-0.23	-31.39	-0.10	1.00	1.00	0.00
1,753.71	6.54	269.58	1,752.29	-0.27	-37.25	-0.12	1.00	1.00	0.00
Start 773.05 hold at 1753.71 MD									
1,800.00	6.54	269.58	1,798.28	-0.31	-42.52	-0.13	0.00	0.00	0.00
1,900.00	6.54	269.58	1,897.63	-0.39	-53.90	-0.17	0.00	0.00	0.00
2,000.00	6.54	269.58	1,996.98	-0.48	-65.29	-0.20	0.00	0.00	0.00
2,053.37	6.54	269.58	2,050.00	-0.52	-71.36	-0.22	0.00	0.00	0.00
9 5/8"									
2,100.00	6.54	269.58	2,096.33	-0.56	-76.67	-0.24	0.00	0.00	0.00
2,200.00	6.54	269.58	2,195.68	-0.64	-88.06	-0.28	0.00	0.00	0.00
2,300.00	6.54	269.58	2,295.03	-0.73	-99.44	-0.31	0.00	0.00	0.00
2,400.00	6.54	269.58	2,394.38	-0.81	-110.83	-0.35	0.00	0.00	0.00
2,500.00	6.54	269.58	2,493.73	-0.89	-122.21	-0.38	0.00	0.00	0.00
2,526.76	6.54	269.58	2,520.32	-0.92	-125.26	-0.39	0.00	0.00	0.00
Start Drop -1.00 at 2526.76 MD									
2,600.00	5.80	269.58	2,593.13	-0.97	-133.13	-0.42	1.00	-1.00	0.00
2,700.00	4.80	269.58	2,692.70	-1.04	-142.38	-0.44	1.00	-1.00	0.00
2,800.00	3.80	269.58	2,792.42	-1.10	-149.88	-0.47	1.00	-1.00	0.00
2,900.00	2.80	269.58	2,892.25	-1.14	-155.65	-0.49	1.00	-1.00	0.00
3,000.00	1.80	269.58	2,992.17	-1.17	-159.67	-0.50	1.00	-1.00	0.00
3,100.00	0.80	269.58	3,092.14	-1.18	-161.94	-0.51	1.00	-1.00	0.00
3,180.47	0.00	0.01	3,172.61	-1.19	-162.51	-0.51	1.00	-1.00	0.00
Start 300.00 hold at 3180.47 MD									
3,200.00	0.00	0.00	3,192.14	-1.19	-162.51	-0.51	0.00	0.00	0.00
3,300.00	0.00	0.00	3,292.14	-1.19	-162.51	-0.51	0.00	0.00	0.00
3,400.00	0.00	0.00	3,392.14	-1.19	-162.51	-0.51	0.00	0.00	0.00
3,480.47	0.00	0.00	3,472.61	-1.19	-162.51	-0.51	0.00	0.00	0.00
Start Build 8.00 at 3480.47 MD									
3,500.00	1.56	359.76	3,492.14	-0.92	-162.51	-0.24	8.00	8.00	0.00
3,600.00	9.56	359.76	3,591.59	8.76	-162.55	9.44	8.00	8.00	0.00
3,700.00	17.56	359.76	3,688.72	32.19	-162.65	32.87	8.00	8.00	0.00
3,800.00	25.56	359.76	3,781.64	68.92	-162.80	69.60	8.00	8.00	0.00
3,900.00	33.56	359.76	3,868.56	118.21	-163.01	118.89	8.00	8.00	0.00
4,000.00	41.56	359.76	3,947.76	179.12	-163.26	179.81	8.00	8.00	0.00

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site State 402H
Company:	Ridgeway Arizona Oil Corp	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Project:	Chaves County , NM (NAD83)	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site:	State 402H	North Reference:	Grid
Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,003.00	41.80	359.76	3,950.00	181.12	-163.27	181.80	8.00	8.00	0.00
7"									
4,100.00	49.56	359.76	4,017.72	250.47	-163.56	251.15	8.00	8.00	0.00
4,200.00	57.56	359.76	4,077.06	330.85	-163.90	331.53	8.00	8.00	0.00
4,230.47	60.00	359.76	4,092.86	356.91	-164.01	357.59	8.00	8.00	0.00
Start 200.00 hold at 4230.47 MD									
4,300.00	60.00	359.76	4,127.62	417.12	-164.26	417.81	0.00	0.00	0.00
4,400.00	60.00	359.76	4,177.62	503.72	-164.62	504.41	0.00	0.00	0.00
4,430.47	60.00	359.76	4,192.86	530.11	-164.73	530.80	0.00	0.00	0.00
Start DLS 10.00 TFO 0.00 at 4430.47 MD									
4,500.00	66.95	359.76	4,223.89	592.28	-164.99	592.97	10.00	10.00	0.00
4,600.00	76.95	359.76	4,254.83	687.24	-165.39	687.93	10.00	10.00	0.00
4,700.00	86.95	359.76	4,268.81	786.13	-165.81	786.82	10.00	10.00	0.00
4,725.86	89.54	359.76	4,269.60	811.97	-165.92	812.66	10.00	10.00	0.00
Start 5339.36 hold at 4725.86 MD									
4,800.00	89.54	359.76	4,270.20	886.11	-166.23	886.80	0.00	0.00	0.00
4,900.00	89.54	359.76	4,271.00	986.11	-166.65	986.80	0.00	0.00	0.00
5,000.00	89.54	359.76	4,271.81	1,086.11	-167.07	1,086.80	0.00	0.00	0.00
5,100.00	89.54	359.76	4,272.61	1,186.10	-167.49	1,186.79	0.00	0.00	0.00
5,200.00	89.54	359.76	4,273.42	1,286.10	-167.91	1,286.79	0.00	0.00	0.00
5,300.00	89.54	359.76	4,274.22	1,386.09	-168.34	1,386.79	0.00	0.00	0.00
5,400.00	89.54	359.76	4,275.03	1,486.09	-168.76	1,486.78	0.00	0.00	0.00
5,500.00	89.54	359.76	4,275.83	1,586.08	-169.18	1,586.78	0.00	0.00	0.00
5,600.00	89.54	359.76	4,276.64	1,686.08	-169.60	1,686.78	0.00	0.00	0.00
5,700.00	89.54	359.76	4,277.44	1,786.08	-170.02	1,786.77	0.00	0.00	0.00
5,800.00	89.54	359.76	4,278.25	1,886.07	-170.44	1,886.77	0.00	0.00	0.00
5,900.00	89.54	359.76	4,279.05	1,986.07	-170.86	1,986.77	0.00	0.00	0.00
6,000.00	89.54	359.76	4,279.86	2,086.06	-171.28	2,086.76	0.00	0.00	0.00
6,100.00	89.54	359.76	4,280.67	2,186.06	-171.70	2,186.76	0.00	0.00	0.00
6,200.00	89.54	359.76	4,281.47	2,286.06	-172.13	2,286.76	0.00	0.00	0.00
6,300.00	89.54	359.76	4,282.28	2,386.05	-172.55	2,386.75	0.00	0.00	0.00
6,400.00	89.54	359.76	4,283.08	2,486.05	-172.97	2,486.75	0.00	0.00	0.00
6,500.00	89.54	359.76	4,283.89	2,586.04	-173.39	2,586.75	0.00	0.00	0.00
6,600.00	89.54	359.76	4,284.69	2,686.04	-173.81	2,686.74	0.00	0.00	0.00
6,700.00	89.54	359.76	4,285.50	2,786.03	-174.23	2,786.74	0.00	0.00	0.00
6,800.00	89.54	359.76	4,286.30	2,886.03	-174.65	2,886.74	0.00	0.00	0.00
6,900.00	89.54	359.76	4,287.11	2,986.03	-175.07	2,986.73	0.00	0.00	0.00
7,000.00	89.54	359.76	4,287.91	3,086.02	-175.49	3,086.73	0.00	0.00	0.00
7,100.00	89.54	359.76	4,288.72	3,186.02	-175.91	3,186.73	0.00	0.00	0.00
7,200.00	89.54	359.76	4,289.52	3,286.01	-176.34	3,286.72	0.00	0.00	0.00
7,300.00	89.54	359.76	4,290.33	3,386.01	-176.76	3,386.72	0.00	0.00	0.00
7,400.00	89.54	359.76	4,291.14	3,486.01	-177.18	3,486.72	0.00	0.00	0.00
7,500.00	89.54	359.76	4,291.94	3,586.00	-177.60	3,586.71	0.00	0.00	0.00
7,600.00	89.54	359.76	4,292.75	3,686.00	-178.02	3,686.71	0.00	0.00	0.00
7,700.00	89.54	359.76	4,293.55	3,785.99	-178.44	3,786.71	0.00	0.00	0.00
7,800.00	89.54	359.76	4,294.36	3,885.99	-178.86	3,886.70	0.00	0.00	0.00
7,900.00	89.54	359.76	4,295.16	3,985.99	-179.28	3,986.70	0.00	0.00	0.00
8,000.00	89.54	359.76	4,295.97	4,085.98	-179.70	4,086.70	0.00	0.00	0.00
8,100.00	89.54	359.76	4,296.77	4,185.98	-180.13	4,186.69	0.00	0.00	0.00
8,200.00	89.54	359.76	4,297.58	4,285.97	-180.55	4,286.69	0.00	0.00	0.00
8,300.00	89.54	359.76	4,298.38	4,385.97	-180.97	4,386.69	0.00	0.00	0.00
8,400.00	89.54	359.76	4,299.19	4,485.96	-181.39	4,486.69	0.00	0.00	0.00
8,500.00	89.54	359.76	4,299.99	4,585.96	-181.81	4,586.68	0.00	0.00	0.00

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site State 402H
Company:	Ridgeway Arizona Oil Corp	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Project:	Chaves County , NM (NAD83)	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site:	State 402H	North Reference:	Grid
Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,600.00	89.54	359.76	4,300.80	4,685.96	-182.23	4,686.68	0.00	0.00	0.00	
8,700.00	89.54	359.76	4,301.61	4,785.95	-182.65	4,786.68	0.00	0.00	0.00	
8,800.00	89.54	359.76	4,302.41	4,885.95	-183.07	4,886.67	0.00	0.00	0.00	
8,900.00	89.54	359.76	4,303.22	4,985.94	-183.49	4,986.67	0.00	0.00	0.00	
9,000.00	89.54	359.76	4,304.02	5,085.94	-183.92	5,086.67	0.00	0.00	0.00	
9,100.00	89.54	359.76	4,304.83	5,185.94	-184.34	5,186.66	0.00	0.00	0.00	
9,200.00	89.54	359.76	4,305.63	5,285.93	-184.76	5,286.66	0.00	0.00	0.00	
9,300.00	89.54	359.76	4,306.44	5,385.93	-185.18	5,386.66	0.00	0.00	0.00	
9,400.00	89.54	359.76	4,307.24	5,485.92	-185.60	5,486.65	0.00	0.00	0.00	
9,500.00	89.54	359.76	4,308.05	5,585.92	-186.02	5,586.65	0.00	0.00	0.00	
9,600.00	89.54	359.76	4,308.85	5,685.92	-186.44	5,686.65	0.00	0.00	0.00	
9,700.00	89.54	359.76	4,309.66	5,785.91	-186.86	5,786.64	0.00	0.00	0.00	
9,800.00	89.54	359.76	4,310.46	5,885.91	-187.28	5,886.64	0.00	0.00	0.00	
9,900.00	89.54	359.76	4,311.27	5,985.90	-187.70	5,986.64	0.00	0.00	0.00	
10,000.00	89.54	359.76	4,312.07	6,085.90	-188.13	6,086.63	0.00	0.00	0.00	
10,065.22	89.54	359.76	4,312.60	6,151.11	-188.40	6,151.85	0.00	0.00	0.00	
TD at 10065.22 MD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL State 402H - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	961,161.30	772,216.50	33° 38' 23.184 N	103° 34' 29.036 W	
FTP State 402H - plan misses target center by 0.01ft at 4932.49ft MD (4271.26 TVD, 1018.60 N, -166.79 E) - Point	0.00	0.00	4,271.26	1,018.60	-166.80	962,179.90	772,049.70	33° 38' 33.273 N	103° 34' 30.920 W	
LTP State 402H - plan misses target center by 15.21ft at 10000.00ft MD (4312.07 TVD, 6085.90 N, -188.13 E) - Point	0.00	0.00	4,312.20	6,101.11	-188.20	967,262.40	772,028.30	33° 39' 23.555 N	103° 34' 30.732 W	
PBHL State 402H - plan hits target center - Point	0.00	0.00	4,312.60	6,151.11	-188.40	967,312.40	772,028.10	33° 39' 24.050 N	103° 34' 30.730 W	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
900.00	900.00	16"	16.000	20.000		
2,053.37	2,050.00	9 5/8"	9.625	12.250		
4,003.00	3,950.00	7"	7.000	8.750		

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site State 402H
Company:	Ridgeway Arizona Oil Corp	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Project:	Chaves County , NM (NAD83)	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site:	State 402H	North Reference:	Grid
Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,100.00	1,100.00	0.00	0.00	Start Build 1.00 at 1100 MD
1,753.71	1,752.29	-0.27	-37.25	Start 773.05 hold at 1753.71 MD
2,526.76	2,520.32	-0.92	-125.26	Start Drop -1.00 at 2526.76 MD
3,180.47	3,172.61	-1.19	-162.51	Start 300.00 hold at 3180.47 MD
3,480.47	3,472.61	-1.19	-162.51	Start Build 8.00 at 3480.47 MD
4,230.47	4,092.86	356.91	-164.01	Start 200.00 hold at 4230.47 MD
4,430.47	4,192.86	530.11	-164.73	Start DLS 10.00 TFO 0.00 at 4430.47 MD
4,725.86	4,269.60	811.97	-165.92	Start 5339.36 hold at 4725.86 MD
10,065.22	4,312.60	6,151.11	-188.40	TD at 10065.22 MD

Ridgeway Arizona Oil Corp

Chaves County , NM (NAD83)

State 402H

State 402H

Wellbore #1

Plan: Plan #1

Standard Planning Report - Geographic

23 August, 2021

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Site State 402H
Company:	Ridgeway Arizona Oil Corp	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Project:	Chaves County , NM (NAD83)	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site:	State 402H	North Reference:	Grid
Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

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

Site	State 402H				
Site Position:		Northing:	961,161.30 usft	Latitude:	33° 38' 23.184 N
From:	Map	Easting:	772,216.50 usft	Longitude:	103° 34' 29.036 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in		

Well	State 402H					
Well Position	+N/-S	0.00 ft	Northing:	961,161.30 usft	Latitude:	33° 38' 23.184 N
	+E/-W	0.00 ft	Easting:	772,216.50 usft	Longitude:	103° 34' 29.036 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,420.00 ft
Grid Convergence:		0.42 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/23/2021	6.63	61.17	48,299.57201401

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.76

Plan Survey Tool Program	Date	8/23/2021		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	10,065.22 Plan #1 (Wellbore #1)	MWD	
			MWD - Standard	

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Site State 402H
Company:	Ridgeway Arizona Oil Corp	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Project:	Chaves County , NM (NAD83)	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site:	State 402H	North Reference:	Grid
Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,753.71	6.54	269.58	1,752.29	-0.27	-37.25	1.00	1.00	0.00	269.58	
2,526.76	6.54	269.58	2,520.32	-0.92	-125.26	0.00	0.00	0.00	0.00	
3,180.47	0.00	0.01	3,172.61	-1.19	-162.51	1.00	-1.00	0.00	180.00	
3,480.47	0.00	0.01	3,472.61	-1.19	-162.51	0.00	0.00	0.00	0.01	
4,230.47	60.00	359.76	4,092.86	356.91	-164.01	8.00	8.00	0.00	359.76	
4,430.47	60.00	359.76	4,192.86	530.11	-164.73	0.00	0.00	0.00	0.00	
4,725.86	89.54	359.76	4,269.60	811.97	-165.92	10.00	10.00	0.00	0.00	
10,065.22	89.54	359.76	4,312.60	6,151.11	-188.40	0.00	0.00	0.00	0.00	PBHL State 402H

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Site State 402H
Company:	Ridgeway Arizona Oil Corp	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Project:	Chaves County , NM (NAD83)	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site:	State 402H	North Reference:	Grid
Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	961,161.30	772,216.50	33° 38' 23.184 N	103° 34' 29.036 W
100.00	0.00	0.00	100.00	0.00	0.00	961,161.30	772,216.50	33° 38' 23.184 N	103° 34' 29.036 W
200.00	0.00	0.00	200.00	0.00	0.00	961,161.30	772,216.50	33° 38' 23.184 N	103° 34' 29.036 W
300.00	0.00	0.00	300.00	0.00	0.00	961,161.30	772,216.50	33° 38' 23.184 N	103° 34' 29.036 W
400.00	0.00	0.00	400.00	0.00	0.00	961,161.30	772,216.50	33° 38' 23.184 N	103° 34' 29.036 W
500.00	0.00	0.00	500.00	0.00	0.00	961,161.30	772,216.50	33° 38' 23.184 N	103° 34' 29.036 W
600.00	0.00	0.00	600.00	0.00	0.00	961,161.30	772,216.50	33° 38' 23.184 N	103° 34' 29.036 W
700.00	0.00	0.00	700.00	0.00	0.00	961,161.30	772,216.50	33° 38' 23.184 N	103° 34' 29.036 W
800.00	0.00	0.00	800.00	0.00	0.00	961,161.30	772,216.50	33° 38' 23.184 N	103° 34' 29.036 W
900.00	0.00	0.00	900.00	0.00	0.00	961,161.30	772,216.50	33° 38' 23.184 N	103° 34' 29.036 W
16"									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	961,161.30	772,216.50	33° 38' 23.184 N	103° 34' 29.036 W
1,100.00	0.00	0.00	1,100.00	0.00	0.00	961,161.30	772,216.50	33° 38' 23.184 N	103° 34' 29.036 W
Start Build 1.00 at 1100 MD									
1,200.00	1.00	269.58	1,199.99	-0.01	-0.87	961,161.30	772,215.62	33° 38' 23.184 N	103° 34' 29.046 W
1,300.00	2.00	269.58	1,299.96	-0.03	-3.49	961,161.28	772,213.01	33° 38' 23.184 N	103° 34' 29.077 W
1,400.00	3.00	269.58	1,399.86	-0.06	-7.85	961,161.24	772,208.65	33° 38' 23.184 N	103° 34' 29.128 W
1,500.00	4.00	269.58	1,499.68	-0.10	-13.96	961,161.20	772,202.54	33° 38' 23.184 N	103° 34' 29.201 W
1,600.00	5.00	269.58	1,599.37	-0.16	-21.80	961,161.14	772,194.70	33° 38' 23.184 N	103° 34' 29.293 W
1,700.00	6.00	269.58	1,698.90	-0.23	-31.39	961,161.07	772,185.11	33° 38' 23.184 N	103° 34' 29.407 W
1,753.71	6.54	269.58	1,752.29	-0.27	-37.25	961,161.03	772,179.25	33° 38' 23.184 N	103° 34' 29.476 W
Start 773.05 hold at 1753.71 MD									
1,800.00	6.54	269.58	1,798.28	-0.31	-42.52	961,160.99	772,173.98	33° 38' 23.184 N	103° 34' 29.539 W
1,900.00	6.54	269.58	1,897.63	-0.39	-53.90	961,160.91	772,162.59	33° 38' 23.184 N	103° 34' 29.673 W
2,000.00	6.54	269.58	1,996.98	-0.48	-65.29	961,160.82	772,151.21	33° 38' 23.184 N	103° 34' 29.808 W
2,053.37	6.54	269.58	2,050.00	-0.52	-71.36	961,160.78	772,145.13	33° 38' 23.184 N	103° 34' 29.880 W
9 5/8"									
2,100.00	6.54	269.58	2,096.33	-0.56	-76.67	961,160.74	772,139.82	33° 38' 23.184 N	103° 34' 29.942 W
2,200.00	6.54	269.58	2,195.68	-0.64	-88.06	961,160.66	772,128.44	33° 38' 23.184 N	103° 34' 30.077 W
2,300.00	6.54	269.58	2,295.03	-0.73	-99.44	961,160.57	772,117.05	33° 38' 23.184 N	103° 34' 30.212 W
2,400.00	6.54	269.58	2,394.38	-0.81	-110.83	961,160.49	772,105.67	33° 38' 23.184 N	103° 34' 30.346 W
2,500.00	6.54	269.58	2,493.73	-0.89	-122.21	961,160.41	772,094.29	33° 38' 23.184 N	103° 34' 30.481 W
2,526.76	6.54	269.58	2,520.32	-0.92	-125.26	961,160.39	772,091.24	33° 38' 23.184 N	103° 34' 30.517 W
Start Drop -1.00 at 2526.76 MD									
2,600.00	5.80	269.58	2,593.13	-0.97	-133.13	961,160.33	772,083.37	33° 38' 23.184 N	103° 34' 30.610 W
2,700.00	4.80	269.58	2,692.70	-1.04	-142.38	961,160.26	772,074.12	33° 38' 23.184 N	103° 34' 30.720 W
2,800.00	3.80	269.58	2,792.42	-1.10	-149.88	961,160.21	772,066.62	33° 38' 23.184 N	103° 34' 30.808 W
2,900.00	2.80	269.58	2,892.25	-1.14	-155.65	961,160.16	772,060.85	33° 38' 23.184 N	103° 34' 30.877 W
3,000.00	1.80	269.58	2,992.17	-1.17	-159.67	961,160.13	772,056.83	33° 38' 23.184 N	103° 34' 30.924 W
3,100.00	0.80	269.58	3,092.14	-1.18	-161.94	961,160.12	772,054.55	33° 38' 23.184 N	103° 34' 30.951 W
3,180.47	0.00	0.01	3,172.61	-1.19	-162.51	961,160.11	772,053.99	33° 38' 23.184 N	103° 34' 30.958 W
Start 300.00 hold at 3180.47 MD									
3,200.00	0.00	0.00	3,192.14	-1.19	-162.51	961,160.11	772,053.99	33° 38' 23.184 N	103° 34' 30.958 W
3,300.00	0.00	0.00	3,292.14	-1.19	-162.51	961,160.11	772,053.99	33° 38' 23.184 N	103° 34' 30.958 W
3,400.00	0.00	0.00	3,392.14	-1.19	-162.51	961,160.11	772,053.99	33° 38' 23.184 N	103° 34' 30.958 W
3,480.47	0.00	0.00	3,472.61	-1.19	-162.51	961,160.11	772,053.99	33° 38' 23.184 N	103° 34' 30.958 W
Start Build 8.00 at 3480.47 MD									
3,500.00	1.56	359.76	3,492.14	-0.92	-162.51	961,160.38	772,053.99	33° 38' 23.186 N	103° 34' 30.958 W
3,600.00	9.56	359.76	3,591.59	8.76	-162.55	961,170.06	772,053.95	33° 38' 23.282 N	103° 34' 30.957 W
3,700.00	17.56	359.76	3,688.72	32.19	-162.65	961,193.50	772,053.85	33° 38' 23.514 N	103° 34' 30.957 W
3,800.00	25.56	359.76	3,781.64	68.92	-162.80	961,230.22	772,053.70	33° 38' 23.877 N	103° 34' 30.955 W
3,900.00	33.56	359.76	3,868.56	118.21	-163.01	961,279.51	772,053.49	33° 38' 24.365 N	103° 34' 30.953 W
4,000.00	41.56	359.76	3,947.76	179.12	-163.26	961,340.43	772,053.23	33° 38' 24.968 N	103° 34' 30.951 W

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Site State 402H
Company:	Ridgeway Arizona Oil Corp	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Project:	Chaves County , NM (NAD83)	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site:	State 402H	North Reference:	Grid
Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
4,003.00	41.80	359.76	3,950.00	181.12	-163.27	961,342.42	772,053.23	33° 38' 24.987 N	103° 34' 30.951 W	
7"										
4,100.00	49.56	359.76	4,017.72	250.47	-163.56	961,411.77	772,052.93	33° 38' 25.673 N	103° 34' 30.948 W	
4,200.00	57.56	359.76	4,077.06	330.85	-163.90	961,492.15	772,052.60	33° 38' 26.469 N	103° 34' 30.945 W	
4,230.47	60.00	359.76	4,092.86	356.91	-164.01	961,518.21	772,052.49	33° 38' 26.726 N	103° 34' 30.944 W	
Start 200.00 hold at 4230.47 MD										
4,300.00	60.00	359.76	4,127.62	417.12	-164.26	961,578.42	772,052.24	33° 38' 27.322 N	103° 34' 30.942 W	
4,400.00	60.00	359.76	4,177.62	503.72	-164.62	961,665.02	772,051.87	33° 38' 28.179 N	103° 34' 30.939 W	
4,430.47	60.00	359.76	4,192.86	530.11	-164.73	961,691.41	772,051.76	33° 38' 28.440 N	103° 34' 30.938 W	
Start DLS 10.00 TFO 0.00 at 4430.47 MD										
4,500.00	66.95	359.76	4,223.89	592.28	-164.99	961,753.58	772,051.50	33° 38' 29.055 N	103° 34' 30.936 W	
4,600.00	76.95	359.76	4,254.83	687.24	-165.39	961,848.54	772,051.10	33° 38' 29.995 N	103° 34' 30.932 W	
4,700.00	86.95	359.76	4,268.81	786.13	-165.81	961,947.43	772,050.69	33° 38' 30.973 N	103° 34' 30.929 W	
4,725.86	89.54	359.76	4,269.60	811.97	-165.92	961,973.27	772,050.58	33° 38' 31.229 N	103° 34' 30.928 W	
Start 5339.36 hold at 4725.86 MD										
4,800.00	89.54	359.76	4,270.20	886.11	-166.23	962,047.41	772,050.27	33° 38' 31.962 N	103° 34' 30.925 W	
4,900.00	89.54	359.76	4,271.00	986.11	-166.65	962,147.41	772,049.85	33° 38' 32.951 N	103° 34' 30.921 W	
5,000.00	89.54	359.76	4,271.81	1,086.11	-167.07	962,247.40	772,049.43	33° 38' 33.941 N	103° 34' 30.917 W	
5,100.00	89.54	359.76	4,272.61	1,186.10	-167.49	962,347.40	772,049.00	33° 38' 34.930 N	103° 34' 30.914 W	
5,200.00	89.54	359.76	4,273.42	1,286.10	-167.91	962,447.40	772,048.58	33° 38' 35.919 N	103° 34' 30.910 W	
5,300.00	89.54	359.76	4,274.22	1,386.09	-168.34	962,547.39	772,048.16	33° 38' 36.908 N	103° 34' 30.906 W	
5,400.00	89.54	359.76	4,275.03	1,486.09	-168.76	962,647.39	772,047.74	33° 38' 37.898 N	103° 34' 30.903 W	
5,500.00	89.54	359.76	4,275.83	1,586.08	-169.18	962,747.38	772,047.32	33° 38' 38.887 N	103° 34' 30.899 W	
5,600.00	89.54	359.76	4,276.64	1,686.08	-169.60	962,847.38	772,046.90	33° 38' 39.876 N	103° 34' 30.895 W	
5,700.00	89.54	359.76	4,277.44	1,786.08	-170.02	962,947.37	772,046.48	33° 38' 40.866 N	103° 34' 30.892 W	
5,800.00	89.54	359.76	4,278.25	1,886.07	-170.44	963,047.37	772,046.06	33° 38' 41.855 N	103° 34' 30.888 W	
5,900.00	89.54	359.76	4,279.05	1,986.07	-170.86	963,147.37	772,045.64	33° 38' 42.844 N	103° 34' 30.884 W	
6,000.00	89.54	359.76	4,279.86	2,086.06	-171.28	963,247.36	772,045.21	33° 38' 43.833 N	103° 34' 30.881 W	
6,100.00	89.54	359.76	4,280.67	2,186.06	-171.70	963,347.36	772,044.79	33° 38' 44.823 N	103° 34' 30.877 W	
6,200.00	89.54	359.76	4,281.47	2,286.06	-172.13	963,447.35	772,044.37	33° 38' 45.812 N	103° 34' 30.873 W	
6,300.00	89.54	359.76	4,282.28	2,386.05	-172.55	963,547.35	772,043.95	33° 38' 46.801 N	103° 34' 30.869 W	
6,400.00	89.54	359.76	4,283.08	2,486.05	-172.97	963,647.34	772,043.53	33° 38' 47.791 N	103° 34' 30.866 W	
6,500.00	89.54	359.76	4,283.89	2,586.04	-173.39	963,747.34	772,043.11	33° 38' 48.780 N	103° 34' 30.862 W	
6,600.00	89.54	359.76	4,284.69	2,686.04	-173.81	963,847.34	772,042.69	33° 38' 49.769 N	103° 34' 30.858 W	
6,700.00	89.54	359.76	4,285.50	2,786.03	-174.23	963,947.33	772,042.27	33° 38' 50.758 N	103° 34' 30.855 W	
6,800.00	89.54	359.76	4,286.30	2,886.03	-174.65	964,047.33	772,041.85	33° 38' 51.748 N	103° 34' 30.851 W	
6,900.00	89.54	359.76	4,287.11	2,986.03	-175.07	964,147.32	772,041.42	33° 38' 52.737 N	103° 34' 30.847 W	
7,000.00	89.54	359.76	4,287.91	3,086.02	-175.49	964,247.32	772,041.00	33° 38' 53.726 N	103° 34' 30.844 W	
7,100.00	89.54	359.76	4,288.72	3,186.02	-175.91	964,347.31	772,040.58	33° 38' 54.715 N	103° 34' 30.840 W	
7,200.00	89.54	359.76	4,289.52	3,286.01	-176.34	964,447.31	772,040.16	33° 38' 55.705 N	103° 34' 30.836 W	
7,300.00	89.54	359.76	4,290.33	3,386.01	-176.76	964,547.30	772,039.74	33° 38' 56.694 N	103° 34' 30.833 W	
7,400.00	89.54	359.76	4,291.14	3,486.01	-177.18	964,647.30	772,039.32	33° 38' 57.683 N	103° 34' 30.829 W	
7,500.00	89.54	359.76	4,291.94	3,586.00	-177.60	964,747.30	772,038.90	33° 38' 58.673 N	103° 34' 30.825 W	
7,600.00	89.54	359.76	4,292.75	3,686.00	-178.02	964,847.29	772,038.48	33° 38' 59.662 N	103° 34' 30.821 W	
7,700.00	89.54	359.76	4,293.55	3,785.99	-178.44	964,947.29	772,038.06	33° 39' 0.651 N	103° 34' 30.818 W	
7,800.00	89.54	359.76	4,294.36	3,885.99	-178.86	965,047.28	772,037.64	33° 39' 1.640 N	103° 34' 30.814 W	
7,900.00	89.54	359.76	4,295.16	3,985.99	-179.28	965,147.28	772,037.21	33° 39' 2.630 N	103° 34' 30.810 W	
8,000.00	89.54	359.76	4,295.97	4,085.98	-179.70	965,247.27	772,036.79	33° 39' 3.619 N	103° 34' 30.807 W	
8,100.00	89.54	359.76	4,296.77	4,185.98	-180.13	965,347.27	772,036.37	33° 39' 4.608 N	103° 34' 30.803 W	
8,200.00	89.54	359.76	4,297.58	4,285.97	-180.55	965,447.27	772,035.95	33° 39' 5.598 N	103° 34' 30.799 W	
8,300.00	89.54	359.76	4,298.38	4,385.97	-180.97	965,547.26	772,035.53	33° 39' 6.587 N	103° 34' 30.796 W	
8,400.00	89.54	359.76	4,299.19	4,485.96	-181.39	965,647.26	772,035.11	33° 39' 7.576 N	103° 34' 30.792 W	
8,500.00	89.54	359.76	4,299.99	4,585.96	-181.81	965,747.25	772,034.69	33° 39' 8.565 N	103° 34' 30.788 W	
8,600.00	89.54	359.76	4,300.80	4,685.96	-182.23	965,847.25	772,034.27	33° 39' 9.555 N	103° 34' 30.785 W	

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Site State 402H
Company:	Ridgeway Arizona Oil Corp	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Project:	Chaves County , NM (NAD83)	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site:	State 402H	North Reference:	Grid
Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
8,700.00	89.54	359.76	4,301.61	4,785.95	-182.65	965,947.24	772,033.85	33° 39' 10.544 N	103° 34' 30.781 W	
8,800.00	89.54	359.76	4,302.41	4,885.95	-183.07	966,047.24	772,033.42	33° 39' 11.533 N	103° 34' 30.777 W	
8,900.00	89.54	359.76	4,303.22	4,985.94	-183.49	966,147.24	772,033.00	33° 39' 12.523 N	103° 34' 30.773 W	
9,000.00	89.54	359.76	4,304.02	5,085.94	-183.92	966,247.23	772,032.58	33° 39' 13.512 N	103° 34' 30.770 W	
9,100.00	89.54	359.76	4,304.83	5,185.94	-184.34	966,347.23	772,032.16	33° 39' 14.501 N	103° 34' 30.766 W	
9,200.00	89.54	359.76	4,305.63	5,285.93	-184.76	966,447.22	772,031.74	33° 39' 15.490 N	103° 34' 30.762 W	
9,300.00	89.54	359.76	4,306.44	5,385.93	-185.18	966,547.22	772,031.32	33° 39' 16.480 N	103° 34' 30.759 W	
9,400.00	89.54	359.76	4,307.24	5,485.92	-185.60	966,647.21	772,030.90	33° 39' 17.469 N	103° 34' 30.755 W	
9,500.00	89.54	359.76	4,308.05	5,585.92	-186.02	966,747.21	772,030.48	33° 39' 18.458 N	103° 34' 30.751 W	
9,600.00	89.54	359.76	4,308.85	5,685.92	-186.44	966,847.21	772,030.06	33° 39' 19.448 N	103° 34' 30.748 W	
9,700.00	89.54	359.76	4,309.66	5,785.91	-186.86	966,947.20	772,029.64	33° 39' 20.437 N	103° 34' 30.744 W	
9,800.00	89.54	359.76	4,310.46	5,885.91	-187.28	967,047.20	772,029.21	33° 39' 21.426 N	103° 34' 30.740 W	
9,900.00	89.54	359.76	4,311.27	5,985.90	-187.70	967,147.19	772,028.79	33° 39' 22.415 N	103° 34' 30.737 W	
10,000.00	89.54	359.76	4,312.07	6,085.90	-188.13	967,247.19	772,028.37	33° 39' 23.405 N	103° 34' 30.733 W	
10,065.22	89.54	359.76	4,312.60	6,151.11	-188.40	967,312.40	772,028.10	33° 39' 24.050 N	103° 34' 30.730 W	
TD at 10065.22 MD										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL State 402H - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	961,161.30	772,216.50	33° 38' 23.184 N	103° 34' 29.036 W	
FTP State 402H - plan misses target center by 0.01ft at 4932.49ft MD (4271.26 TVD, 1018.60 N, -166.79 E) - Point	0.00	0.00	4,271.26	1,018.60	-166.80	962,179.90	772,049.70	33° 38' 33.273 N	103° 34' 30.920 W	
LTP State 402H - plan misses target center by 15.21ft at 10000.00ft MD (4312.07 TVD, 6085.90 N, -188.13 E) - Point	0.00	0.00	4,312.20	6,101.11	-188.20	967,262.40	772,028.30	33° 39' 23.555 N	103° 34' 30.732 W	
PBHL State 402H - plan hits target center - Point	0.00	0.00	4,312.60	6,151.11	-188.40	967,312.40	772,028.10	33° 39' 24.050 N	103° 34' 30.730 W	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (in)	Hole Diameter (in)	
900.00	900.00	16"		16.000	20.000	
2,053.37	2,050.00	9 5/8"		9.625	12.250	
4,003.00	3,950.00	7"		7.000	8.750	

Planning Report - Geographic

Database:	EDM	Local Co-ordinate Reference:	Site State 402H
Company:	Ridgeway Arizona Oil Corp	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Project:	Chaves County , NM (NAD83)	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site:	State 402H	North Reference:	Grid
Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,100.00	1,100.00	0.00	0.00	Start Build 1.00 at 1100 MD
1,753.71	1,752.29	-0.27	-37.25	Start 773.05 hold at 1753.71 MD
2,526.76	2,520.32	-0.92	-125.26	Start Drop -1.00 at 2526.76 MD
3,180.47	3,172.61	-1.19	-162.51	Start 300.00 hold at 3180.47 MD
3,480.47	3,472.61	-1.19	-162.51	Start Build 8.00 at 3480.47 MD
4,230.47	4,092.86	356.91	-164.01	Start 200.00 hold at 4230.47 MD
4,430.47	4,192.86	530.11	-164.73	Start DLS 10.00 TFO 0.00 at 4430.47 MD
4,725.86	4,269.60	811.97	-165.92	Start 5339.36 hold at 4725.86 MD
10,065.22	4,312.60	6,151.11	-188.40	TD at 10065.22 MD

Ridgeway Arizona Oil Corp

Chaves County , NM (NAD83)

State 402H

State 402H

Wellbore #1

Plan #1

Anticollision Report

23 August, 2021

Anticollision Report

Company:	Ridgeway Arizona Oil Corp	Local Co-ordinate Reference:	Site State 402H
Project:	Chaves County , NM (NAD83)	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Reference Site:	State 402H	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,000.00ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	8/23/2021		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	10,065.22	Plan #1 (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
State 403H						
State 403H - Wellbore #1 - Plan #1	1,100.00	1,100.00	40.00	35.63	9.151	CC, ES
State 403H - Wellbore #1 - Plan #1	10,065.22	10,347.18	1,319.95	1,097.67	5.938	SF

Offset Design:	State 403H - State 403H - Wellbore #1 - Plan #1											Offset Site Error:	0.00 ft
Survey Program:	0-MWD											Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	40.00	40.00				
100.00	100.00	100.00	100.00	0.09	0.09	90.00	0.00	40.00	40.00	39.82	0.18	219.524	
200.00	200.00	200.00	200.00	0.30	0.30	90.00	0.00	40.00	40.00	39.40	0.60	66.546	
300.00	300.00	300.00	300.00	0.51	0.51	90.00	0.00	40.00	40.00	38.98	1.02	39.217	
400.00	400.00	400.00	400.00	0.72	0.72	90.00	0.00	40.00	40.00	38.56	1.44	27.800	
500.00	500.00	500.00	500.00	0.93	0.93	90.00	0.00	40.00	40.00	38.14	1.86	21.532	
600.00	600.00	600.00	600.00	1.14	1.14	90.00	0.00	40.00	40.00	37.72	2.28	17.570	
700.00	700.00	700.00	700.00	1.35	1.35	90.00	0.00	40.00	40.00	37.30	2.70	14.840	
800.00	800.00	800.00	800.00	1.56	1.56	90.00	0.00	40.00	40.00	36.89	3.11	12.844	
900.00	900.00	900.00	900.00	1.77	1.77	90.00	0.00	40.00	40.00	36.47	3.53	11.321	
1,000.00	1,000.00	1,000.00	1,000.00	1.98	1.98	90.00	0.00	40.00	40.00	36.05	3.95	10.121	
1,100.00	1,100.00	1,100.00	1,100.00	2.19	2.19	90.00	0.00	40.00	40.00	35.63	4.37	9.151	CC, ES
1,200.00	1,199.99	1,199.99	1,199.99	2.40	2.39	-179.59	0.00	40.00	40.87	36.08	4.79	8.533	
1,300.00	1,299.96	1,299.96	1,299.96	2.61	2.60	-179.61	0.00	40.00	43.49	38.28	5.21	8.348	
1,400.00	1,399.86	1,399.86	1,399.86	2.82	2.81	-179.65	0.00	40.00	47.85	42.22	5.63	8.500	
1,500.00	1,499.68	1,499.68	1,499.68	3.03	3.02	-179.69	0.00	40.00	53.96	47.91	6.05	8.918	
1,600.00	1,599.37	1,599.37	1,599.37	3.26	3.23	-179.73	0.00	40.00	61.80	55.33	6.47	9.550	
1,700.00	1,698.90	1,698.90	1,698.90	3.49	3.44	-179.76	0.00	40.00	71.39	64.49	6.89	10.356	
1,753.71	1,752.29	1,752.29	1,752.29	3.62	3.55	-179.78	0.00	40.00	77.25	70.13	7.12	10.849	
1,800.00	1,798.28	1,798.28	1,798.28	3.73	3.65	-179.80	0.00	40.00	82.52	75.21	7.32	11.279	
1,900.00	1,897.63	1,897.63	1,897.63	3.98	3.86	-179.82	0.00	40.00	93.91	86.17	7.74	12.137	
2,000.00	1,996.98	1,996.98	1,996.98	4.24	4.06	-179.84	0.00	40.00	105.29	97.13	8.16	12.905	
2,100.00	2,096.33	2,096.33	2,096.33	4.50	4.27	-179.86	0.00	40.00	116.68	108.09	8.58	13.595	
2,200.00	2,195.68	2,195.68	2,195.68	4.76	4.48	-179.87	0.00	40.00	128.06	119.05	9.01	14.220	
2,300.00	2,295.03	2,295.03	2,295.03	5.03	4.69	-179.88	0.00	40.00	139.44	130.01	9.43	14.787	

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

Anticollision Report

Company:	Ridgeway Arizona Oil Corp	Local Co-ordinate Reference:	Site State 402H
Project:	Chaves County , NM (NAD83)	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Reference Site:	State 402H	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: State 403H - State 403H - Wellbore #1 - Plan #1													Offset Site Error: 0.00 ft
Survey Program: 0-MWD													Offset Well Error: 0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
2,400.00	2,394.38	2,394.38	2,394.38	5.30	4.90	-179.89	0.00	40.00	150.83	140.97	9.86	15.305	
2,500.00	2,493.73	2,493.73	2,493.73	5.57	5.10	-179.90	0.00	40.00	162.21	151.93	10.28	15.779	
2,526.76	2,520.32	2,520.32	2,520.32	5.65	5.16	-179.90	0.00	40.00	165.26	154.87	10.39	15.899	
2,600.00	2,593.13	2,593.13	2,593.13	5.84	5.31	-179.90	0.00	40.00	173.13	162.43	10.71	16.173	
2,700.00	2,692.70	2,692.70	2,692.70	6.08	5.52	-179.91	0.00	40.00	182.38	171.25	11.13	16.388	
2,800.00	2,792.42	2,792.42	2,792.42	6.32	5.73	-179.91	0.00	40.00	189.88	178.33	11.55	16.439	
2,900.00	2,892.25	2,892.25	2,892.25	6.55	5.94	-179.91	0.00	40.00	195.65	183.68	11.97	16.342	
3,000.00	2,992.17	2,992.17	2,992.17	6.76	6.15	-179.92	0.00	40.00	199.67	187.28	12.39	16.113	
3,100.00	3,092.14	3,092.14	3,092.14	6.97	6.36	-179.92	0.00	40.00	201.95	189.14	12.81	15.766	
3,180.47	3,172.61	3,172.61	3,172.61	7.13	6.53	89.66	0.00	40.00	202.51	189.37	13.14	15.407	
3,200.00	3,192.14	3,192.14	3,192.14	7.16	6.57	89.66	0.00	40.00	202.51	189.29	13.23	15.312	
3,300.00	3,292.14	3,292.14	3,292.14	7.36	6.78	89.66	0.00	40.00	202.51	188.87	13.64	14.846	
3,400.00	3,392.14	3,392.14	3,392.14	7.55	6.99	89.66	0.00	40.00	202.51	188.46	14.06	14.407	
3,402.87	3,395.01	3,395.01	3,395.01	7.56	6.99	89.66	0.00	40.00	202.51	188.44	14.07	14.394	
3,480.47	3,472.61	3,469.22	3,469.21	7.71	7.15	89.61	0.21	40.16	202.70	188.33	14.38	14.099	
3,500.00	3,492.14	3,485.81	3,485.80	7.74	7.18	89.73	0.71	40.55	203.17	188.73	14.44	14.067	
3,550.00	3,542.03	3,528.22	3,528.06	7.84	7.27	89.53	3.37	42.63	205.63	191.04	14.60	14.085	
3,600.00	3,591.59	3,570.42	3,569.85	7.95	7.37	89.46	7.97	46.23	209.91	195.17	14.74	14.240	
3,650.00	3,640.56	3,612.35	3,610.96	8.05	7.46	89.50	14.46	51.29	215.97	201.10	14.87	14.523	
3,700.00	3,688.72	3,650.00	3,647.41	8.17	7.54	89.54	21.88	57.10	223.83	208.89	14.94	14.981	
3,750.00	3,735.82	3,695.05	3,690.29	8.29	7.65	89.80	32.74	65.58	233.36	218.23	15.13	15.423	
3,800.00	3,781.64	3,735.69	3,728.17	8.43	7.76	90.00	44.34	74.64	244.63	229.35	15.28	16.008	
3,850.00	3,825.96	3,775.80	3,764.67	8.58	7.88	90.18	57.43	84.87	257.57	242.11	15.46	16.658	
3,900.00	3,868.56	3,815.33	3,799.68	8.76	8.02	90.32	71.89	96.16	272.14	256.46	15.68	17.355	
3,950.00	3,909.22	3,854.26	3,833.12	8.97	8.17	90.39	87.59	108.43	288.27	272.33	15.95	18.078	
4,000.00	3,947.76	3,892.58	3,864.93	9.22	8.35	90.37	104.42	121.58	305.91	289.64	16.27	18.802	
4,050.00	3,983.98	3,930.27	3,895.06	9.51	8.54	90.25	122.26	135.52	324.97	308.31	16.65	19.512	
4,100.00	4,017.72	3,967.35	3,923.49	9.86	8.76	90.02	141.00	150.16	345.38	328.27	17.10	20.194	
4,150.00	4,048.79	4,000.00	3,947.48	10.26	8.97	89.51	158.45	163.80	367.07	349.53	17.54	20.927	
4,200.00	4,077.06	4,039.74	3,975.29	10.71	9.27	89.23	180.82	181.27	389.89	371.69	18.19	21.430	
4,230.47	4,092.86	4,061.36	3,989.74	11.00	9.45	88.89	193.49	191.17	404.34	385.76	18.58	21.766	
4,300.00	4,127.62	4,110.68	4,020.84	11.74	9.88	90.77	223.64	214.73	438.71	419.20	19.51	22.484	
4,400.00	4,177.62	4,181.66	4,060.82	12.89	10.62	92.30	269.83	250.81	490.85	469.88	20.97	23.402	
4,430.47	4,192.86	4,203.74	4,072.07	13.25	10.87	92.54	284.81	262.52	507.25	485.80	21.45	23.644	
4,450.00	4,202.33	4,220.09	4,080.24	13.50	11.06	91.48	295.97	271.23	517.83	496.00	21.83	23.720	
4,500.00	4,223.89	4,261.55	4,100.97	14.14	11.57	89.07	324.25	293.34	544.99	522.16	22.83	23.869	
4,550.00	4,241.43	4,302.15	4,121.27	14.83	12.07	87.05	351.97	314.99	572.23	548.35	23.88	23.967	
4,600.00	4,254.83	4,341.61	4,141.00	15.55	12.59	85.34	378.89	336.02	599.55	574.58	24.97	24.012	
4,650.00	4,263.98	4,379.61	4,160.00	16.29	13.10	83.83	404.82	356.28	626.98	600.92	26.06	24.058	
4,700.00	4,268.81	4,413.39	4,176.75	17.06	13.57	82.31	427.94	374.35	654.63	627.55	27.08	24.175	
4,725.86	4,269.60	4,428.97	4,184.04	17.46	13.79	81.42	438.79	382.82	669.10	641.54	27.57	24.273	
4,800.00	4,270.20	4,475.30	4,203.45	18.62	14.48	83.69	471.93	408.71	711.73	682.71	29.02	24.526	
4,900.00	4,271.00	4,542.79	4,225.50	20.24	15.54	86.10	522.16	447.96	771.40	740.25	31.15	24.761	
5,000.00	4,271.81	4,614.85	4,240.61	21.88	16.75	87.64	577.64	491.31	832.45	798.95	33.49	24.855	
5,100.00	4,272.61	4,689.50	4,246.81	23.55	18.05	88.26	636.23	537.07	894.12	858.15	35.97	24.857	
5,200.00	4,273.42	4,805.12	4,248.16	25.25	19.96	88.46	728.65	606.52	954.53	914.86	39.67	24.062	
5,300.00	4,274.22	4,930.19	4,249.61	26.96	22.08	88.63	831.70	677.37	1,011.53	967.81	43.72	23.137	
5,400.00	4,275.03	5,062.94	4,251.18	28.69	24.36	88.78	944.33	747.58	1,064.77	1,016.75	48.02	22.174	
5,500.00	4,275.83	5,203.45	4,252.85	30.42	26.78	88.91	1,066.96	816.12	1,113.93	1,061.40	52.53	21.205	
5,600.00	4,276.64	5,351.71	4,254.63	32.17	29.33	89.01	1,199.83	881.83	1,158.63	1,101.43	57.20	20.255	
5,700.00	4,277.44	5,507.50	4,256.51	33.93	31.99	89.11	1,342.91	943.38	1,198.53	1,136.56	61.98	19.338	
5,800.00	4,278.25	5,670.42	4,258.49	35.69	34.73	89.19	1,495.90	999.32	1,233.28	1,166.49	66.79	18.465	

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

Anticollision Report

Company:	Ridgeway Arizona Oil Corp	Local Co-ordinate Reference:	Site State 402H
Project:	Chaves County , NM (NAD83)	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Reference Site:	State 402H	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: State 403H - State 403H - Wellbore #1 - Plan #1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,900.00	4,279.05	5,839.86	4,260.54	37.46	37.53	89.25	1,658.10	1,048.18	1,262.52	1,190.95	71.58	17.639	
6,000.00	4,279.86	6,014.97	4,262.65	39.24	40.36	89.31	1,828.46	1,088.50	1,285.97	1,209.71	76.26	16.864	
6,100.00	4,280.67	6,194.66	4,264.80	41.02	43.21	89.36	2,005.50	1,118.99	1,303.35	1,222.59	80.76	16.138	
6,200.00	4,281.47	6,377.66	4,266.96	42.80	46.03	89.40	2,187.41	1,138.56	1,314.47	1,229.45	85.02	15.460	
6,300.00	4,282.28	6,562.54	4,269.11	44.59	48.82	89.44	2,372.07	1,146.50	1,319.19	1,230.21	88.98	14.826	
6,400.00	4,283.08	6,681.99	4,270.48	46.38	50.58	89.45	2,491.52	1,146.33	1,319.37	1,226.90	92.47	14.268	
6,500.00	4,283.89	6,781.99	4,271.63	48.17	52.04	89.47	2,591.51	1,145.93	1,319.38	1,223.52	95.86	13.763	
6,600.00	4,284.69	6,881.99	4,272.78	49.97	53.51	89.48	2,691.50	1,145.52	1,319.40	1,220.13	99.27	13.291	
6,700.00	4,285.50	6,981.99	4,273.92	51.77	55.00	89.50	2,791.49	1,145.12	1,319.41	1,216.72	102.69	12.849	
6,800.00	4,286.30	7,081.99	4,275.07	53.57	56.51	89.51	2,891.48	1,144.72	1,319.43	1,213.30	106.13	12.432	
6,900.00	4,287.11	7,181.98	4,276.21	55.37	58.04	89.53	2,991.48	1,144.31	1,319.44	1,209.86	109.58	12.041	
7,000.00	4,287.91	7,281.98	4,277.36	57.18	59.58	89.54	3,091.47	1,143.91	1,319.46	1,206.41	113.04	11.672	
7,100.00	4,288.72	7,381.98	4,278.51	58.98	61.14	89.56	3,191.46	1,143.51	1,319.47	1,202.95	116.52	11.324	
7,200.00	4,289.52	7,481.98	4,279.65	60.79	62.71	89.57	3,291.45	1,143.10	1,319.49	1,199.48	120.01	10.995	
7,300.00	4,290.33	7,581.98	4,280.80	62.60	64.30	89.59	3,391.44	1,142.70	1,319.50	1,196.00	123.51	10.684	
7,400.00	4,291.14	7,681.98	4,281.95	64.41	65.90	89.60	3,491.44	1,142.29	1,319.52	1,192.50	127.01	10.389	
7,500.00	4,291.94	7,781.98	4,283.09	66.22	67.51	89.62	3,591.43	1,141.89	1,319.53	1,189.00	130.53	10.109	
7,600.00	4,292.75	7,881.98	4,284.24	68.03	69.13	89.63	3,691.42	1,141.49	1,319.55	1,185.50	134.05	9.844	
7,700.00	4,293.55	7,981.98	4,285.38	69.84	70.76	89.65	3,791.41	1,141.08	1,319.56	1,181.98	137.58	9.591	
7,800.00	4,294.36	8,081.98	4,286.53	71.66	72.40	89.66	3,891.40	1,140.68	1,319.58	1,178.46	141.11	9.351	
7,900.00	4,295.16	8,181.98	4,287.68	73.47	74.05	89.68	3,991.40	1,140.28	1,319.59	1,174.94	144.66	9.122	
8,000.00	4,295.97	8,281.98	4,288.82	75.29	75.71	89.69	4,091.39	1,139.87	1,319.61	1,171.40	148.20	8.904	
8,100.00	4,296.77	8,381.98	4,289.97	77.10	77.38	89.70	4,191.38	1,139.47	1,319.62	1,167.87	151.76	8.696	
8,200.00	4,297.58	8,481.98	4,291.11	78.92	79.05	89.72	4,291.37	1,139.07	1,319.64	1,164.32	155.32	8.497	
8,300.00	4,298.38	8,581.98	4,292.26	80.73	80.73	89.73	4,391.36	1,138.66	1,319.66	1,160.78	158.88	8.306	
8,400.00	4,299.19	8,681.98	4,293.41	82.55	82.42	89.75	4,491.36	1,138.26	1,319.67	1,157.23	162.44	8.124	
8,500.00	4,299.99	8,781.98	4,294.55	84.37	84.11	89.76	4,591.35	1,137.86	1,319.69	1,153.67	166.02	7.949	
8,600.00	4,300.80	8,881.97	4,295.70	86.19	85.81	89.78	4,691.34	1,137.45	1,319.70	1,150.11	169.59	7.782	
8,700.00	4,301.61	8,981.97	4,296.85	88.01	87.51	89.79	4,791.33	1,137.05	1,319.72	1,146.55	173.17	7.621	
8,800.00	4,302.41	9,081.97	4,297.99	89.83	89.22	89.81	4,891.32	1,136.65	1,319.74	1,142.99	176.75	7.467	
8,900.00	4,303.22	9,181.97	4,299.14	91.65	90.94	89.82	4,991.32	1,136.24	1,319.75	1,139.42	180.33	7.318	
9,000.00	4,304.02	9,281.97	4,300.28	93.47	92.66	89.84	5,091.31	1,135.84	1,319.77	1,135.85	183.92	7.176	
9,100.00	4,304.83	9,381.97	4,301.43	95.29	94.38	89.85	5,191.30	1,135.44	1,319.79	1,132.28	187.51	7.038	
9,200.00	4,305.63	9,481.97	4,302.58	97.11	96.10	89.87	5,291.29	1,135.03	1,319.80	1,128.70	191.10	6.906	
9,300.00	4,306.44	9,581.97	4,303.72	98.93	97.84	89.88	5,391.28	1,134.63	1,319.82	1,125.12	194.70	6.779	
9,400.00	4,307.24	9,681.97	4,304.87	100.75	99.57	89.90	5,491.28	1,134.22	1,319.84	1,121.54	198.30	6.656	
9,500.00	4,308.05	9,781.97	4,306.01	102.57	101.31	89.91	5,591.27	1,133.82	1,319.85	1,117.96	201.90	6.537	
9,600.00	4,308.85	9,881.97	4,307.16	104.39	103.05	89.93	5,691.26	1,133.42	1,319.87	1,114.37	205.50	6.423	
9,700.00	4,309.66	9,981.97	4,308.31	106.21	104.79	89.94	5,791.25	1,133.01	1,319.89	1,110.79	209.10	6.312	
9,800.00	4,310.46	10,081.97	4,309.45	108.04	106.54	89.96	5,891.25	1,132.61	1,319.91	1,107.20	212.71	6.205	
9,900.00	4,311.27	10,181.97	4,310.60	109.86	108.29	89.97	5,991.24	1,132.21	1,319.92	1,103.61	216.31	6.102	
10,000.00	4,312.07	10,281.97	4,311.75	111.68	110.04	89.99	6,091.23	1,131.80	1,319.94	1,100.02	219.92	6.002	
10,065.22	4,312.60	10,347.18	4,312.49	112.87	111.19	90.00	6,156.44	1,131.54	1,319.95	1,097.67	222.28	5.938 SF	

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

Anticollision Report

Company:	Ridgeway Arizona Oil Corp	Local Co-ordinate Reference:	Site State 402H
Project:	Chaves County , NM (NAD83)	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Reference Site:	State 402H	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 4420' + RKB 13' @ 4433.00ft

Offset Depths are relative to Offset Datum

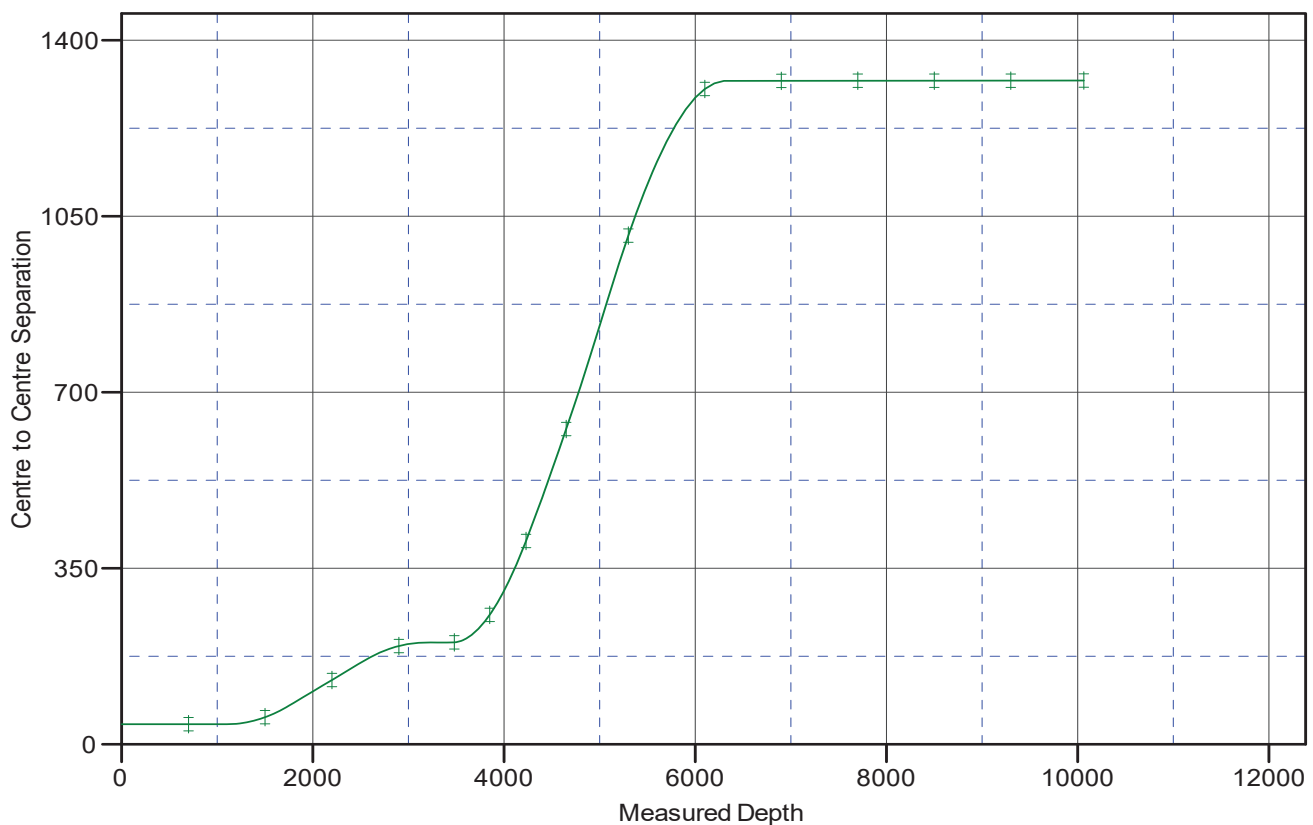
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: State 402H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.42°

Ladder Plot



LEGEND

State 403H, Wellbore #1, Plan #1 VO

Anticollision Report

Company:	Ridgeway Arizona Oil Corp	Local Co-ordinate Reference:	Site State 402H
Project:	Chaves County , NM (NAD83)	TVD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Reference Site:	State 402H	MD Reference:	GL 4420' + RKB 13' @ 4433.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	State 402H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 4420' + RKB 13' @ 4433.00ft

Offset Depths are relative to Offset Datum

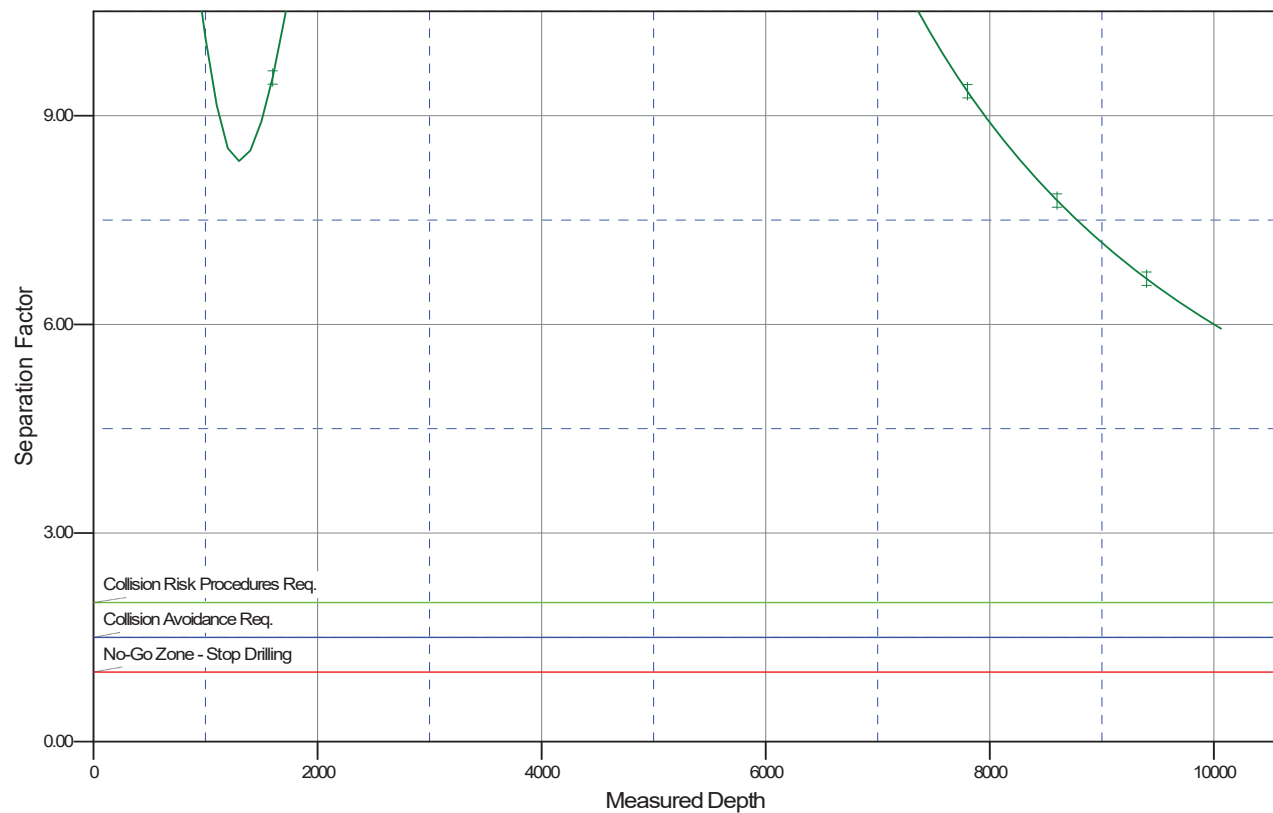
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: State 402H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.42°

Separation Factor Plot



LEGEND

State 403H, Wellbore #1, Plan #1 V0

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: RIDGEWAY ARIZONA OIL CORP **OGRID:** 164557 **Date:** 11/1/2021

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
STATE 402H	TBD	C-09-08S-33E	920FNL&1480 FWL	300 BBL/D	300 MCF/D	3000 BBL/D
STATE 403H	TBD	C-09-08S-33E	920FNL&1530 FWL	300 BBL/D	300 MCF/D	3000 BBL/D

IV. Central Delivery Point Name: _____ [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
STATE 402H	TBD	11/10/2021	11/23/2021	12/10/2021	12/22/2021	12/25/2021
STATE 403H	TBD	11/25/2021	12/8/2021	12/10/2021	12/22/2021	12/25/2021

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☐ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	
Printed Name:	William Boyd
Title:	Land & Regulatory Manager
E-mail Address:	wboyd@pedevco.com
Date:	11/1/2021
Phone:	713-574-7912

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan Attachments

Section VI Separation Equipment:

Separator: 6 X 15 separator
Heater Treater: 6 X 20 75#
Scrubber: 4 X 10 125#
Flare: 4" X 40' with combustion and auto ignite

Equipment designed for 1000 MCFD handling capacity for 100% gas capture. Expected production of 300 BOPD/300 MCFD/3000 BWPD

Gas production flow diagram attached

Section VII Operational Practices per NMAC 19.15.27.8 A through F:

- No natural gas is expected to be produced during drilling operations.
- No natural gas is expected to be produced during completion operations.
- Tanks to be equipped with automatic gauging equipment to minimize venting.
- Flare stack located minimum distance of 100' from tankage and will be equipped with an automatic ignition system.
- Flare will be properly metered per API MPMS Chapter 14.10 to report flared volumes.
- Wells will be connected to a sales line which will accept the produced gas volumes when line pressures allow.
- Heater treater will consume approximately 5 MCFD for beneficial use
- All inspection records will be kept for a minimum of five years.
- In the event of emergency flaring that exceeds 50 MCFD proper notifications will be provided along with the appropriate C-129 in a timely fashion.
-

Section VII Best Management Practices:

- Tankage, gauging equipment, meters and flares will be routinely visually inspected by company personnel during all production operations.
- Oil sales will be trucked therefore during sales all equipment will be inspected visually for condition. Full facility inspections will be conducted and documented annually.
- Cleanouts will be conducted annually at a minimum and more frequently should visual inspections determine a need for equipment cleanouts.

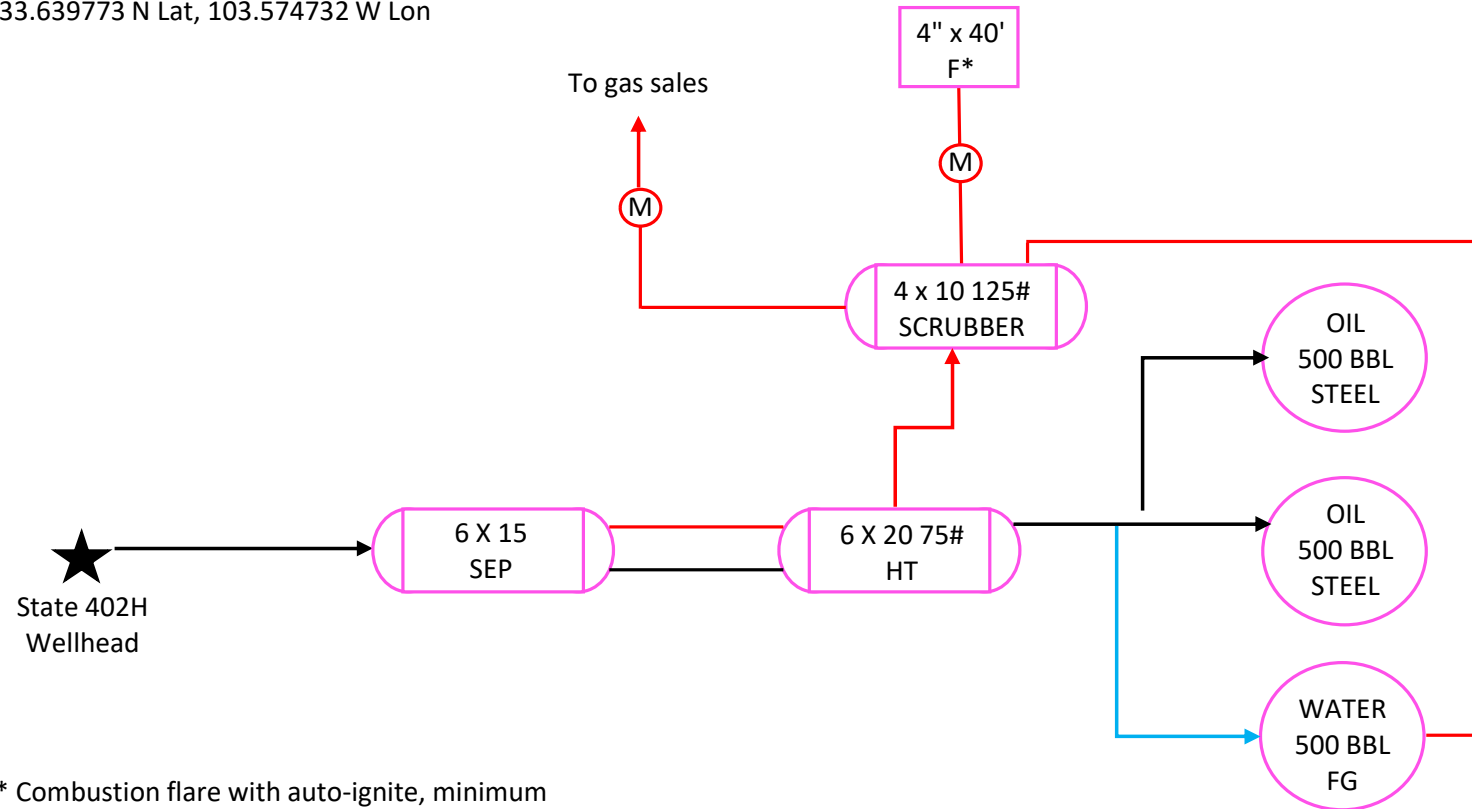
STATE 402H GAS PRODUCTION FLOW DIAGRAMOperator: **RIDGEWAY ARIZONA OIL CORP**

OGRID: 164557

Chaves County, New Mexico

Sec 9 T08S R33E NMPM NESE 920' FNL & 1,480' FWL

33.639773 N Lat, 103.574732 W Lon



* Combustion flare with auto-ignite, minimum
100' distance from all equipment

Submitted by: **WILLIAM BOYD**

November 1, 2021