

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		MAY 12 2014 RECEIVED	5. Lease Serial No. NMNM97153
2. Name of Operator BTA Oil Producers LLC			6. If Indian, Allottee, or Tribe Name
3a. Address 104 S Pecos Midland, TX 79701		3b. Phone No. (include area code) 432-682-3753	7. If Unit or CA. Agreement Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 190' FNL & 1650' FWL Unit Letter C (NENW) Sec 10-25S-33E		Lat. Long.	8. Well Name and No. 9418 JV-P Vaca Draw #4H
			9. API Well No. 30-025-41623
			10. Field and Pool, or Exploratory Area Red Hills; Upper Bone Spring Shale
			11. County or Parish, State Lea County NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/ Resume)	☐ Water Shut-off
☒ Subsequent Report	☐ Altering Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BTA Oil Producers LLC respectfully requests approval for the following changes to the original approved APD.

A sundry for notice of intent to drill a PH was not filed prior to completing the following operations on 3/31/14:

Drilled a 7-7/8" pilot hole to 12,500' and ran a gyro, triple combo, FMI and took RSWC.

Plugged back the entire PH to 8638' with:

175 sx Class H @ 11.9ppg/2.5yield from PHTD to 11,300'

175 sx Class H @ 11.9ppg/2.5yield from 11,300 to 10,100'

250 sx Class H @ 17.2ppg/0.98yield from 10,100 to 9400'

250 sx Class H @ 17.2ppg/0.98yield from 9400' to 8638'

BTA Oil Producers respectfully requests the following changes:

Dress cement to 8845'

Kick off and drill 7-7/8" curve & lateral to 13,995' MD/9450' TVD (see attached directional plan)

Cmt in 1 stage with:

1st stg:

Lead: 950 sx 36:65:6 H + Salt + Gilsonite + CF + CFR-3 @ 10.4 ppg/2.89 yield

Tail: 950 sx 50:50:2 H + Salt + GasStop + CFR-3 @ 14.4 ppg/1.25 yield

35% excess on OH

Designed to circulate cement to surface

14. I hereby certify that the foregoing is true and correct.

Name (Printed/ Typed)

Pam Inskeep

Signature:

Title:

Regulatory Administrator

Date:

4/2/14

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by:

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title:

Office:

ACCEPTED FOR RECORD

MAY 6 2014

/s/ Chris Walls

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Date:

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

MAY 14 2014

HOBBS OCD

MAY 12 2014

RECEIVED

BTA Oil Producers LLC

Lea County, NM (NAD27 NME)

9418 JV-P Vaca Draw

4H

OH

Plan: Plan #2

Standard Planning Report

28 March, 2014

Nexus Directional Solutions, LP

Planning Report

Database: EDM 5000.1 Single User Db
 Company: BTA Oil Producers LLC
 Project: Lea County, NM (NAD27 NME)
 Site: 9418 JV-P Vaca Draw
 Well: 4H
 Wellbore: OH
 Design: Plan #2

Local Co-ordinate Reference: Well 4H
 TVD Reference: WELL @ 3438.7usft (Original Well Elev)
 MD Reference: WELL @ 3438.7usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	9418 JV-P Vaca Draw		
Site Position:	Map	Northings: 419,780.50 usft	Latitude: 32° 9' 6.058 N
From:		Easting: 741,734.30 usft	Longitude: 103° 33' 8.114 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.42 °

Well	4H		
Well Position	+N/-S	-26.3 usft	Northings: 419,754.20 usft
	+E/-W	-3,323.6 usft	Easting: 738,410.70 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,420.7 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	10/16/2013	7.29
			Dip Angle: 60.06
			Field Strength: 48,340

Design	Plan #2		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 8,900.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction: 179.09

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
8,900.0	1.54	220.49	8,898.7	-20.5	-67.0	0.00	0.00	0.00	0.00	
8,971.3	1.54	220.49	8,970.0	-21.9	-68.2	0.00	0.00	0.00	0.00	
9,712.8	89.87	165.00	9,440.0	-484.6	45.0	12.00	11.91	-7.48	-55.50	
10,342.7	89.87	180.75	9,441.5	-1,107.7	122.9	2.50	0.00	2.50	90.03	
13,995.1	89.87	180.75	9,450.0	-4,759.8	75.3	0.00	0.00	0.00	0.00	PBHL 9418 JP Vaca L

Nexus Directional Solutions, LP

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Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.13	82.84	100.0	0.0	0.1	0.0	0.13	0.13	0.00
200.0	0.16	116.98	200.0	0.0	0.3	0.0	0.09	0.03	34.14
300.0	0.24	121.51	300.0	-0.2	0.7	0.2	0.08	0.08	4.53
400.0	0.05	67.30	400.0	-0.3	0.9	0.3	0.21	-0.19	-54.21
500.0	0.08	58.46	500.0	-0.2	1.0	0.3	0.03	0.03	-8.84
600.0	0.09	18.70	600.0	-0.1	1.1	0.2	0.06	0.01	-39.76
700.0	0.18	345.46	700.0	0.1	1.0	-0.1	0.12	0.09	-33.24
800.0	0.26	313.07	800.0	0.4	0.8	-0.4	0.14	0.08	-32.39
900.0	0.52	309.68	900.0	0.8	0.3	-0.8	0.26	0.26	-3.39
1,000.0	1.21	306.63	1,000.0	1.8	-0.9	-1.8	0.69	0.69	-3.05
1,100.0	1.64	296.12	1,100.0	3.0	-3.0	-3.1	0.50	0.43	-10.51
1,200.0	1.31	300.09	1,199.9	4.2	-5.3	-4.3	0.35	-0.33	3.97
1,300.0	0.99	309.53	1,299.9	5.3	-6.9	-5.5	0.37	-0.32	9.44
1,400.0	0.67	303.60	1,399.9	6.2	-8.1	-6.3	0.33	-0.32	-5.93
1,500.0	0.57	284.78	1,499.9	6.7	-9.1	-6.8	0.23	-0.10	-18.82
1,600.0	0.46	288.56	1,599.9	6.9	-9.9	-7.1	0.12	-0.11	3.78
1,700.0	0.42	281.56	1,699.9	7.1	-10.7	-7.3	0.07	-0.04	-7.00
1,800.0	0.20	275.16	1,799.9	7.2	-11.2	-7.4	0.22	-0.22	-6.40
1,900.0	0.17	248.86	1,899.9	7.2	-11.5	-7.4	0.09	-0.03	-26.30
2,000.0	0.29	225.57	1,999.9	6.9	-11.8	-7.1	0.15	0.12	-23.29
2,100.0	0.13	248.14	2,099.9	6.7	-12.1	-6.9	0.18	-0.16	22.57
2,200.0	0.07	173.16	2,199.9	6.6	-12.2	-6.8	0.13	-0.06	-74.98
2,300.0	0.09	236.09	2,299.9	6.5	-12.3	-6.7	0.09	0.02	62.93
2,400.0	0.07	51.46	2,399.9	6.5	-12.3	-6.7	0.16	-0.02	175.37
2,500.0	0.20	8.21	2,499.9	6.7	-12.2	-6.9	0.16	0.13	-43.25
2,600.0	0.08	349.70	2,599.9	7.0	-12.2	-7.2	0.13	-0.12	-18.51
2,700.0	0.30	326.28	2,699.9	7.3	-12.4	-7.4	0.23	0.22	-23.42
2,800.0	0.22	330.34	2,799.9	7.6	-12.6	-7.8	0.08	-0.08	4.06
2,900.0	0.42	334.47	2,899.9	8.1	-12.8	-8.3	0.20	0.20	4.13
3,000.0	0.40	305.65	2,999.9	8.7	-13.3	-8.9	0.20	-0.02	-28.82
3,100.0	0.34	327.52	3,099.9	9.1	-13.7	-9.3	0.15	-0.06	21.87
3,200.0	0.38	342.08	3,199.9	9.7	-14.0	-9.9	0.10	0.04	14.56
3,300.0	0.42	349.52	3,299.9	10.4	-14.2	-10.6	0.07	0.04	7.44
3,400.0	0.35	14.85	3,399.9	11.0	-14.2	-11.2	0.18	-0.07	25.33
3,500.0	0.46	7.91	3,499.9	11.7	-14.0	-11.9	0.12	0.11	-6.94
3,600.0	0.49	12.52	3,599.9	12.5	-13.9	-12.7	0.05	0.03	4.61
3,700.0	0.38	292.95	3,699.8	13.1	-14.1	-13.3	0.56	-0.11	-79.57
3,800.0	0.56	284.38	3,799.8	13.3	-14.9	-13.6	0.19	0.18	-8.57
3,900.0	0.49	284.54	3,899.8	13.6	-15.7	-13.8	0.07	-0.07	0.16
4,000.0	0.52	304.27	3,999.8	13.9	-16.5	-14.2	0.18	0.03	19.73
4,100.0	0.64	284.84	4,099.8	14.3	-17.5	-14.6	0.23	0.12	-19.43
4,200.0	0.49	288.53	4,199.8	14.6	-18.4	-14.9	0.15	-0.15	3.69
4,300.0	0.89	262.49	4,299.8	14.6	-19.6	-14.9	0.50	0.40	-26.04
4,400.0	0.76	240.09	4,399.8	14.2	-20.9	-14.5	0.34	-0.13	-22.40
4,500.0	0.59	201.64	4,499.8	13.4	-21.7	-13.7	0.47	-0.17	-38.45
4,600.0	0.72	187.58	4,599.8	12.3	-22.0	-12.6	0.21	0.13	-14.06
4,700.0	1.43	158.14	4,699.8	10.5	-21.6	-10.8	0.88	0.71	-29.44
4,800.0	1.62	151.04	4,799.7	8.1	-20.4	-8.4	0.27	0.19	-7.10
4,900.0	0.92	152.76	4,899.7	6.2	-19.4	-6.5	0.70	-0.70	1.72
5,000.0	0.64	142.33	4,999.7	5.0	-18.7	-5.3	0.31	-0.28	-10.43
5,100.0	0.41	160.55	5,099.7	4.2	-18.2	-4.5	0.28	-0.23	18.22
5,200.0	0.37	185.73	5,199.7	3.6	-18.1	-3.9	0.17	-0.04	25.18
5,300.0	0.32	214.60	5,299.7	3.0	-18.3	-3.3	0.18	-0.05	28.87

Nexus Directional Solutions, LP

Planning Report

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5,400.0	0.15	253.31	5,399.7	2.7	-18.6	-3.0	0.22	-0.17	38.71
5,500.0	0.15	205.84	5,499.7	2.6	-18.8	-2.9	0.12	0.00	-47.47
5,600.0	0.22	218.19	5,599.7	2.3	-18.9	-2.6	0.08	0.07	12.35
5,700.0	0.25	280.50	5,699.7	2.2	-19.3	-2.5	0.24	0.03	62.31
5,800.0	0.15	310.33	5,799.7	2.3	-19.6	-2.6	0.14	-0.10	29.83
5,900.0	0.36	278.52	5,899.7	2.5	-20.0	-2.8	0.25	0.21	-31.81
6,000.0	0.28	289.27	5,999.7	2.6	-20.5	-2.9	0.10	-0.08	10.75
6,100.0	0.42	254.08	6,099.7	2.6	-21.1	-2.9	0.25	0.14	-35.19
6,200.0	0.60	282.77	6,199.7	2.6	-22.0	-2.9	0.31	0.18	28.69
6,300.0	0.64	309.91	6,299.7	3.1	-22.9	-3.4	0.29	0.04	27.14
6,400.0	0.44	299.89	6,399.7	3.6	-23.7	-4.0	0.22	-0.20	-10.02
6,500.0	0.51	298.42	6,499.7	4.0	-24.4	-4.4	0.07	0.07	-1.47
6,600.0	0.63	295.90	6,599.7	4.5	-25.3	-4.9	0.12	0.12	-2.52
6,700.0	0.76	317.74	6,699.7	5.2	-26.2	-5.6	0.29	0.13	21.84
6,800.0	0.77	318.32	6,799.7	6.2	-27.1	-6.6	0.01	0.01	0.58
6,900.0	0.75	326.65	6,899.6	7.2	-27.9	-7.7	0.11	-0.02	8.33
7,000.0	0.55	314.88	6,999.6	8.1	-28.6	-8.6	0.24	-0.20	-11.77
7,100.0	0.50	314.18	7,099.6	8.8	-29.3	-9.2	0.05	-0.05	-0.70
7,200.0	0.63	289.19	7,199.6	9.3	-30.1	-9.7	0.28	0.13	-24.99
7,300.0	0.61	284.79	7,299.6	9.6	-31.2	-10.1	0.05	-0.02	-4.40
7,400.0	0.75	278.19	7,399.6	9.8	-32.3	-10.3	0.16	0.14	-6.60
7,500.0	0.72	273.01	7,499.6	9.9	-33.6	-10.5	0.07	-0.03	-5.18
7,600.0	0.83	260.47	7,599.6	9.8	-34.9	-10.4	0.20	0.11	-12.54
7,700.0	1.29	255.14	7,699.6	9.4	-36.7	-10.0	0.47	0.46	-5.33
7,800.0	1.35	247.95	7,799.6	8.7	-38.9	-9.3	0.18	0.06	-7.19
7,900.0	3.25	239.68	7,899.5	6.8	-42.5	-7.5	1.92	1.90	-8.27
8,000.0	2.84	232.71	7,999.3	3.9	-46.9	-4.6	0.55	-0.41	-6.97
8,100.0	2.64	229.33	8,099.2	0.9	-50.6	-1.7	0.26	-0.20	-3.38
8,200.0	2.47	226.25	8,199.1	-2.1	-53.9	1.2	0.22	-0.17	-3.08
8,300.0	2.19	220.44	8,299.0	-5.0	-56.7	4.1	0.37	-0.28	-5.81
8,400.0	2.06	214.01	8,399.0	-8.0	-58.9	7.1	0.27	-0.13	-6.43
8,500.0	1.86	212.67	8,498.9	-10.8	-60.8	9.9	0.21	-0.20	-1.34
8,600.0	1.77	207.67	8,598.9	-13.6	-62.4	12.6	0.18	-0.09	-5.00
8,700.0	1.51	211.40	8,698.8	-16.1	-63.8	15.1	0.28	-0.26	3.73
8,800.0	1.58	215.06	8,798.8	-18.3	-65.3	17.3	0.12	0.07	3.66
8,900.0	1.54	220.49	8,898.7	-20.5	-67.0	19.4	0.15	-0.04	5.43
8,945.3	1.54	220.49	8,944.0	-21.4	-67.8	20.3	0.00	0.00	0.00
Start Build 12.00									
8,971.3	1.54	220.49	8,970.0	-21.9	-68.2	20.8	0.00	0.00	0.00
8,975.0	1.83	208.94	8,973.7	-22.0	-68.3	20.9	12.00	7.80	-312.12
9,000.0	4.50	181.35	8,998.7	-23.3	-68.5	22.3	12.00	10.68	-110.37
9,025.0	7.43	174.78	9,023.5	-25.9	-68.4	24.9	12.00	11.71	-26.26
9,050.0	10.40	171.93	9,048.2	-29.8	-67.9	28.7	12.00	11.88	-11.40
9,075.0	13.38	170.34	9,072.7	-34.9	-67.1	33.8	12.00	11.93	-6.37
9,100.0	16.37	169.32	9,096.9	-41.2	-66.0	40.1	12.00	11.96	-4.08
9,125.0	19.36	168.61	9,120.6	-48.7	-64.5	47.7	12.00	11.97	-2.84
9,150.0	22.35	168.09	9,144.0	-57.4	-62.7	56.4	12.00	11.98	-2.11
9,175.0	25.35	167.68	9,166.9	-67.3	-60.6	66.3	12.00	11.98	-1.63
9,195.3	27.78	167.41	9,185.0	-76.2	-58.6	75.2	12.00	11.99	-1.33
Start DLS 12.00 TFO 10.97									
9,200.0	28.35	167.35	9,189.2	-78.3	-58.1	77.4	12.00	11.99	-1.20
9,225.0	31.35	167.08	9,210.9	-90.5	-55.4	89.6	12.00	11.99	-1.08
9,250.0	34.34	166.86	9,231.9	-103.7	-52.3	102.8	12.00	11.99	-0.91

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,275.0	37.34	166.66	9,252.1	-117.9	-49.0	117.1	12.00	11.99	-0.78
9,300.0	40.34	166.49	9,271.6	-133.2	-45.3	132.4	12.00	11.99	-0.68
9,325.0	43.34	166.34	9,290.2	-149.4	-41.4	148.7	12.00	12.00	-0.60
9,350.0	46.34	166.21	9,307.9	-166.5	-37.2	165.9	12.00	12.00	-0.54
9,375.0	49.34	166.09	9,324.7	-184.5	-32.8	183.9	12.00	12.00	-0.48
9,400.0	52.34	165.98	9,340.5	-203.3	-28.1	202.8	12.00	12.00	-0.44
9,425.0	55.34	165.87	9,355.2	-222.9	-23.2	222.5	12.00	12.00	-0.41
9,450.0	58.34	165.78	9,368.9	-243.2	-18.1	242.8	12.00	12.00	-0.38
9,475.0	61.34	165.69	9,381.5	-264.1	-12.7	263.9	12.00	12.00	-0.36
9,500.0	64.34	165.61	9,392.9	-285.7	-7.2	285.5	12.00	12.00	-0.34
9,525.0	67.34	165.53	9,403.1	-307.7	-1.5	307.7	12.00	12.00	-0.32
9,550.0	70.34	165.45	9,412.2	-330.3	4.3	330.3	12.00	12.00	-0.31
9,575.0	73.34	165.38	9,419.9	-353.3	10.3	353.4	12.00	12.00	-0.29
9,600.0	76.34	165.31	9,426.5	-376.6	16.4	376.8	12.00	12.00	-0.29
9,625.0	79.34	165.24	9,431.8	-400.3	22.6	400.6	12.00	12.00	-0.28
9,650.0	82.33	165.17	9,435.7	-424.1	28.9	424.5	12.00	12.00	-0.27
9,675.0	85.33	165.10	9,438.4	-448.1	35.3	448.6	12.00	12.00	-0.27
9,696.3	87.89	165.04	9,439.7	-468.7	40.7	469.3	12.00	12.00	-0.27
Start 4284.7 hold at 9696.3 MD									
9,700.0	88.33	165.03	9,439.8	-472.3	41.7	472.9	12.00	12.00	-0.27
9,712.8	89.87	165.00	9,440.0	-484.6	45.0	485.3	12.00	12.00	-0.27
9,800.0	89.87	167.18	9,440.2	-569.3	66.0	570.2	2.50	0.00	2.50
9,900.0	89.87	169.68	9,440.4	-667.2	86.0	668.5	2.50	0.00	2.50
10,000.0	89.87	172.18	9,440.7	-766.0	101.8	767.5	2.50	0.00	2.50
10,100.0	89.87	174.68	9,440.9	-865.3	113.2	867.0	2.50	0.00	2.50
10,200.0	89.87	177.18	9,441.1	-965.0	120.3	966.8	2.50	0.00	2.50
10,300.0	89.87	179.68	9,441.4	-1,065.0	123.1	1,066.8	2.50	0.00	2.50
10,342.7	89.87	180.75	9,441.5	-1,107.7	122.9	1,109.5	2.50	0.00	2.50
10,400.0	89.87	180.75	9,441.6	-1,165.0	122.2	1,166.8	0.00	0.00	0.00
10,500.0	89.87	180.75	9,441.8	-1,265.0	120.9	1,266.7	0.00	0.00	0.00
10,600.0	89.87	180.75	9,442.1	-1,365.0	119.6	1,366.7	0.00	0.00	0.00
10,700.0	89.87	180.75	9,442.3	-1,465.0	118.3	1,466.6	0.00	0.00	0.00
10,800.0	89.87	180.75	9,442.5	-1,565.0	116.9	1,566.6	0.00	0.00	0.00
10,900.0	89.87	180.75	9,442.8	-1,664.9	115.6	1,666.6	0.00	0.00	0.00
11,000.0	89.87	180.75	9,443.0	-1,764.9	114.3	1,766.5	0.00	0.00	0.00
11,100.0	89.87	180.75	9,443.2	-1,864.9	113.0	1,866.5	0.00	0.00	0.00
11,200.0	89.87	180.75	9,443.5	-1,964.9	111.7	1,966.4	0.00	0.00	0.00
11,300.0	89.87	180.75	9,443.7	-2,064.9	110.4	2,066.4	0.00	0.00	0.00
11,400.0	89.87	180.75	9,443.9	-2,164.9	109.1	2,166.4	0.00	0.00	0.00
11,500.0	89.87	180.75	9,444.2	-2,264.9	107.8	2,266.3	0.00	0.00	0.00
11,600.0	89.87	180.75	9,444.4	-2,364.9	106.5	2,366.3	0.00	0.00	0.00
11,700.0	89.87	180.75	9,444.6	-2,464.9	105.2	2,466.2	0.00	0.00	0.00
11,800.0	89.87	180.75	9,444.9	-2,564.9	103.9	2,566.2	0.00	0.00	0.00
11,900.0	89.87	180.75	9,445.1	-2,664.9	102.6	2,666.1	0.00	0.00	0.00
12,000.0	89.87	180.75	9,445.3	-2,764.8	101.3	2,766.1	0.00	0.00	0.00
12,100.0	89.87	180.75	9,445.6	-2,864.8	100.0	2,866.1	0.00	0.00	0.00
12,200.0	89.87	180.75	9,445.8	-2,964.8	98.7	2,966.0	0.00	0.00	0.00
12,300.0	89.87	180.75	9,446.0	-3,064.8	97.4	3,066.0	0.00	0.00	0.00
12,400.0	89.87	180.75	9,446.3	-3,164.8	96.1	3,165.9	0.00	0.00	0.00
12,500.0	89.87	180.75	9,446.5	-3,264.8	94.8	3,265.9	0.00	0.00	0.00
12,600.0	89.87	180.75	9,446.7	-3,364.8	93.5	3,365.9	0.00	0.00	0.00
12,700.0	89.87	180.75	9,447.0	-3,464.8	92.2	3,465.8	0.00	0.00	0.00
12,800.0	89.87	180.75	9,447.2	-3,564.8	90.9	3,565.8	0.00	0.00	0.00
12,900.0	89.87	180.75	9,447.4	-3,664.8	89.6	3,665.7	0.00	0.00	0.00

Nexus Directional Solutions, LP

Planning Report

Database: EDM 5000.1 Single User Db
 Company: BTA Oil Producers LLC
 Project: Lea County, NM (NAD27 NME)
 Site: 9418 JV-P Vaca Draw
 Well: 4H
 Wellbore: OH
 Design: Plan #2

Local Co-ordinate Reference: Well 4H
 TVD Reference: WELL @ 3438.7usft (Original Well Elev)
 MD Reference: WELL @ 3438.7usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,000.0	89.87	180.75	9,447.7	-3,764.8	88.3	3,765.7	0.00	0.00	0.00
13,100.0	89.87	180.75	9,447.9	-3,864.7	87.0	3,865.6	0.00	0.00	0.00
13,200.0	89.87	180.75	9,448.1	-3,964.7	85.7	3,965.6	0.00	0.00	0.00
13,300.0	89.87	180.75	9,448.4	-4,064.7	84.4	4,065.6	0.00	0.00	0.00
13,400.0	89.87	180.75	9,448.6	-4,164.7	83.1	4,165.5	0.00	0.00	0.00
13,500.0	89.87	180.75	9,448.8	-4,264.7	81.8	4,265.5	0.00	0.00	0.00
13,600.0	89.87	180.75	9,449.1	-4,364.7	80.5	4,365.4	0.00	0.00	0.00
13,700.0	89.87	180.75	9,449.3	-4,464.7	79.1	4,465.4	0.00	0.00	0.00
13,800.0	89.87	180.75	9,449.5	-4,564.7	77.8	4,565.3	0.00	0.00	0.00
13,900.0	89.87	180.75	9,449.8	-4,664.7	76.5	4,665.3	0.00	0.00	0.00
13,981.0	89.87	180.75	9,450.0	-4,745.6	75.5	4,746.2	0.00	0.00	0.00
TD at 13981.0									
13,995.1	89.87	180.75	9,450.0	-4,759.8	75.3	4,760.4	0.00	0.00	0.00
PBHL 9418 JP Vaca Draw #4H									

Design Targets

Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
hit/miss target									
Shape									
PBHL 9418 JP Vaca Dra	0.00	0.01	9,450.0	-4,759.8	75.3	414,994.40	738,486.00	32° 8' 18.928 N	103° 33' 46.294 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,945.3	8,945.3	0.0	0.0	Start Build 12.00
9,195.3	9,184.0	-63.0	11.1	Start DLS 12.00 TFO 10.97
9,696.3	9,425.0	-475.4	37.5	Start 4284.7 hold at 9696.3 MD
13,981.0	9,450.0	-4,759.8	75.3	TD at 13981.0