

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY 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 reverse side.**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM27279
2. Name of Operator MEWBOURNE OIL COMPANY Contact: JACKIE LATHAN E-Mail: jlathan@mewbourne.com		6. If Indian, Allottee or Tribe Name
3a. Address HOBBS, NM 88241	3b. Phone No. (include area code) Ph: 575-393-5905 Fx: 575-397-6252	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 20 T18S R30E SWSW 450FSL 330FWL		8. Well Name and No. ARIES 20 FED COM 4H
		9. API Well No. 30-015-40427-00-X1
		10. Field and Pool, or Exploratory SAND TANK
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) 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	☐ Alter 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 of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with 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 Notices 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.)

This well was drilled to the Bone Springs at 12685' MD (8250' TVD). Packers & ports were run. Had problems during initial frac job. Ran camera in hole & found port failure at 9020' MD (8209' TVD). Decision was made to plug off original lateral & re-drill new hole parallel to original lateral. Talked to Chris Walls with BLM Carlsbad. Plans are to set 4 1/2" CIBP 50' to 100' inside 4 1/2" liner (TOL @ 8288' MD). Spot 25 sks (180') class H cmt 1.18 yd. Set 7" CIBP at approx 8150' MD for whipstock foundation. Set whipstock & orientate to desired direction to drill 6 1/8" hole for new lateral.

Will send new directional plan as soon as available.

Mud weight 8.5 to 8.7 PPG. BOP will be 11" 5k.

Accepted for record**TCs 1/8/2013 NMOCD****RECEIVED****JAN 03 2013****NMOCD ARTESIA***Note plug top on subsequent Report.*

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #168454 verified by the BLM Well Information System For MEWBOURNE OIL COMPANY, sent to the Carlsbad Committed to AFMSS for processing by CHRISTOPHER WALLS on 12/26/2012 (13CRW0079SE)	
Name (Printed/Typed) MICKEY YOUNG	Title DISTRICT MANAGER
Signature (Electronic Submission)	Date 12/21/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 12/31/2012
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.		Office Carlsbad

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 to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #168454 that would not fit on the form

32. Additional remarks, continued

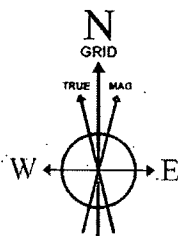
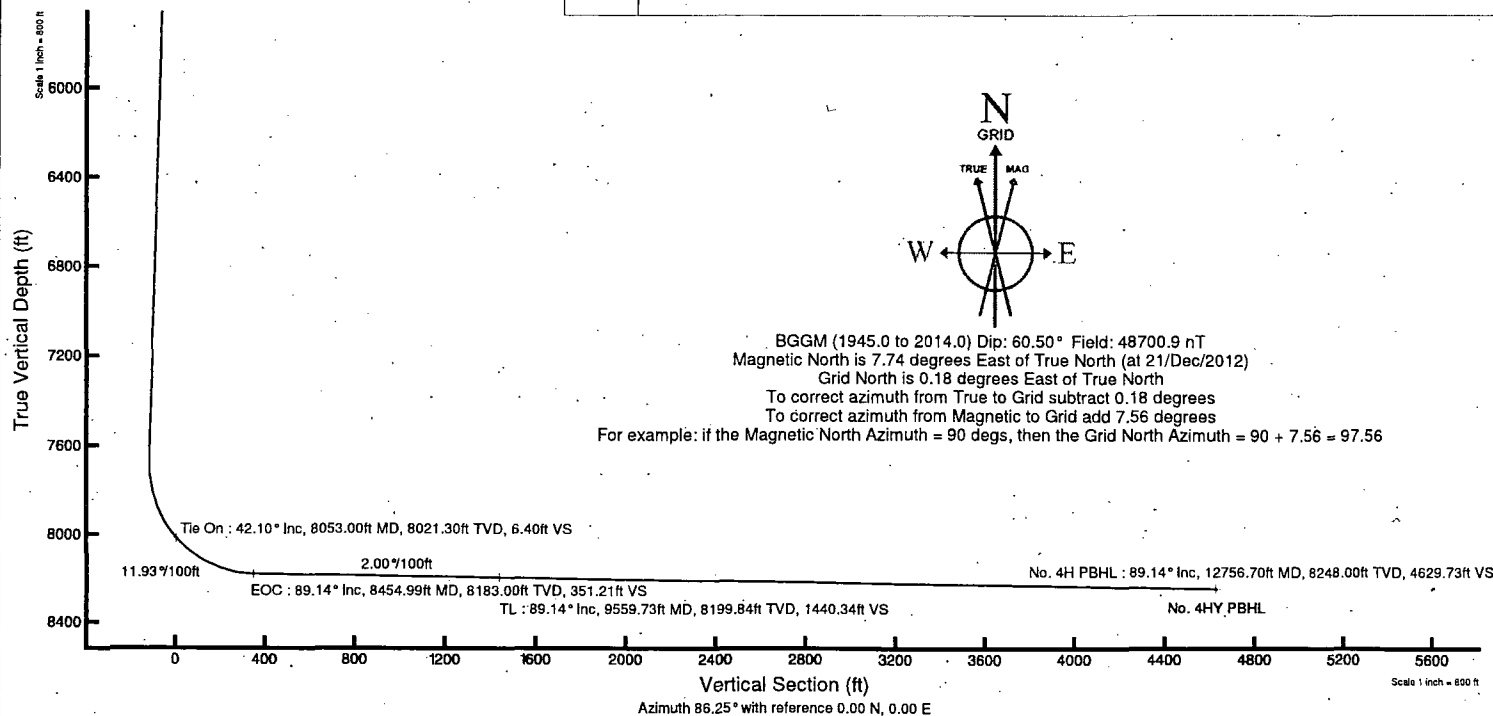
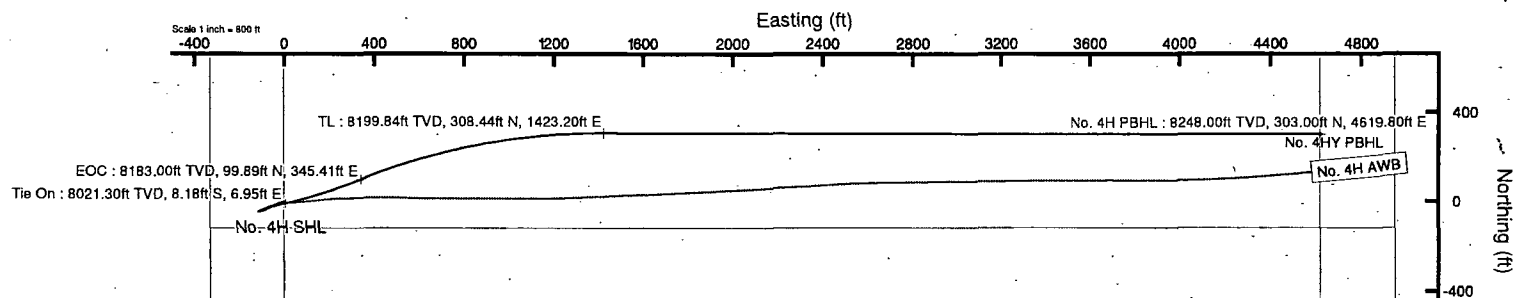
All H2S equipment will be set up & operating before re-entry begins.

We will be staying inside the original proration unit.

If you have any questions, please call Mickey Young.

Bond on file: NM1693, Nationwide & NMB000919

Well-Profile Data								Plot reference wellpath is Rev-A.0	
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)	True vertical depths are referenced to Rig on No. 4H SHL (KB)
Tie On	8053.00	-42.100	78.700	8021.30	-8.18	6.95	0.00	6.40	Measured depths are referenced to Rig on No. 4H SHL (KB)
EOC	8454.99	89.138	68.000	8183.00	99.89	345.41	11.93	351.21	Rig on No. 4H SHL (KB) to Mean Sea Level: 3493 feet
TL	9559.73	89.137	90.097	8199.84	308.44	1423.20	2.00	1440.34	Mean Sea Level to Mud line (At Slot: No. 4H SHL): 0 feet
No. 4H PBHL	12756.70	89.137	90.097	8248.00	303.00	4619.80	0.00	4629.73	Coordinates are in feet referenced to Slot
									Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
									North Reference: Grid north
									Scale: True distance
									Depths are in feet
									Created by: glibjost on 21/Dec/2012



BGGM (1945.0 to 2014.0) Dip: 60.50° Field: 48700.9 nT
Magnetic North is 7.74 degrees East of True North (at 21/Dec/2012)
Grid North is 0.18 degrees East of True North
To correct azimuth from True to Grid subtract 0.18 degrees
To correct azimuth from Magnetic to Grid add 7.56 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.56 = 97.56

Planned Wellpath Report

 Mewbourne Oil Company

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Aries) Sec 20, T18S, R30E	Wellbore	No. 4HY
Facility	Aries 20 Fed Com	Sidetrack from	No. 4H AWB at 7704.00 MD

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect@ 3.0.0
North Reference	Grid	User	Gilbjosl
Scale	0.999921	Report Generated	21/Dec/2012 at 3:24:31 PM
Convergence at slot	0.18° East	Database/Source file	WA Midland/No. 4HY.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-4229.55	14.60	602152.97	628306.42	32°43'36.733"N	104°00'04.160"W
Facility Reference Pt			602138.38	632535.63	32°44'18.583"N	104°00'04.176"W
Field Reference Pt			602138.38	632535.63	32°44'18.583"N	104°00'04.176"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 4H SHL (KB) to GL	3493.00ft
Horizontal Reference Pt	Slot	Rig on No. 4H SHL (KB) to Mean Sea Level	3493.00ft
Vertical Reference Pt	Rig on No. 4H SHL (KB)	Rig on No. 4H SHL (KB) to Mud Line at Slot (No. 4H SHL)	3493.00ft
MD Reference Pt	Rig on No. 4H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	86.25°

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Facility	Aries 20 Fed Com			Sidetrack from	No. 4H AWB at 7704.00 MD

WELLPATH DATA (67 stations) * = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	248.120	0.00	0.00	0.00	0.00	602152.97	628306.42	32°43'36.733"N	104°00'04.160"W	0.00	
18.00	0.000	248.120	18.00	0.00	0.00	0.00	602152.97	628306.42	32°43'36.733"N	104°00'04.160"W	0.00	
7500.00	1.790	248.120	7498.78	-111.06	-43.55	-108.45	602044.54	628262.87	32°43'36.305"N	104°00'05.431"W	0.02	
7672.00	1.300	223.000	7670.72	-115.04	-45.98	-112.27	602040.71	628260.45	32°43'36.281"N	104°00'05.476"W	0.48	
7704.00	1.700	103.800	7702.72	-114.85	-46.36	-112.06	602040.93	628260.07	32°43'36.277"N	104°00'05.474"W	8.11	
7736.00	6.200	86.100	7734.63	-112.67	-46.35	-109.87	602043.11	628260.07	32°43'36.277"N	104°00'05.448"W	14.40	
7768.00	10.500	76.100	7766.29	-108.07	-45.54	-105.31	602047.67	628260.89	32°43'36.285"N	104°00'05.395"W	14.13	
7799.00	13.900	72.000	7796.58	-101.68	-43.71	-99.03	602053.95	628262.72	32°43'36.303"N	104°00'05.321"W	11.31	
7831.00	14.900	68.800	7827.58	-94.03	-41.03	-91.54	602061.44	628265.39	32°43'36.330"N	104°00'05.233"W	3.99	
7863.00	18.700	64.600	7858.21	-85.33	-37.34	-83.06	602069.92	628269.08	32°43'36.366"N	104°00'05.134"W	12.46	
7895.00	22.500	65.200	7888.16	-74.84	-32.57	-72.87	602080.11	628273.85	32°43'36.413"N	104°00'05.014"W	11.89	
7926.00	26.200	68.700	7916.40	-62.78	-27.59	-61.10	602091.88	628278.83	32°43'36.462"N	104°00'04.876"W	12.81	
7958.00	29.900	71.200	7944.63	-48.33	-22.46	-46.97	602106.01	628283.97	32°43'36.512"N	104°00'04.711"W	12.13	
7990.00	34.200	73.900	7971.75	-31.84	-17.39	-30.77	602122.21	628289.03	32°43'36.562"N	104°00'04.521"W	14.16	
8003.00	35.780	74.840	7982.40	-24.54	-15.38	-23.59	602129.39	628291.04	32°43'36.581"N	104°00'04.437"W	12.84	
8022.00	38.100	76.100	7997.59	-13.33	-12.52	-12.53	602140.44	628293.90	32°43'36.609"N	104°00'04.307"W	12.84	
8053.00	42.100	78.700	8021.30	6.40	-8.18	6.95	602159.92	628298.24	32°43'36.651"N	104°00'04.079"W	0.00	Tie On
8153.00†	53.714	75.025	8088.23	79.43	8.86	79.02	602231.98	628315.28	32°43'36.818"N	104°00'03.235"W	11.93	
8253.00†	65.412	72.316	8138.80	163.39	33.17	161.57	602314.53	628339.59	32°43'37.056"N	104°00'02.268"W	11.93	
8353.00†	77.149	70.076	8170.85	254.67	63.71	251.04	602403.99	628370.12	32°43'37.355"N	104°00'01.219"W	11.93	
8453.00†	88.904	68.040	8182.97	349.32	99.14	343.57	602496.51	628405.55	32°43'37.703"N	104°00'00.135"W	11.93	
8454.99	89.138	68.000	8183.00	351.21	99.89	345.41	602498.36	628406.30	32°43'37.710"N	104°00'00.113"W	11.93	EOC
8553.00†	89.133	69.960	8184.48	444.79	135.04	436.88	602589.82	628441.45	32°43'38.055"N	103°59'59.041"W	2.00	
8653.00†	89.128	71.961	8186.00	541.23	167.65	531.40	602684.33	628474.06	32°43'38.375"N	103°59'57.934"W	2.00	
8753.00†	89.125	73.961	8187.52	638.54	196.95	626.99	602779.92	628503.35	32°43'38.662"N	103°59'56.814"W	2.00	
8853.00†	89.123	75.961	8189.05	736.59	222.89	723.55	602876.47	628529.30	32°43'38.916"N	103°59'55.683"W	2.00	
8953.00†	89.121	77.961	8190.58	835.26	245.45	820.96	602973.86	628551.85	32°43'39.136"N	103°59'54.542"W	2.00	
9053.00†	89.121	79.962	8192.12	934.44	264.59	919.09	603071.99	628570.99	32°43'39.322"N	103°59'53.392"W	2.00	
9153.00†	89.122	81.962	8193.65	1033.99	280.30	1017.83	603170.72	628586.70	32°43'39.474"N	103°59'52.236"W	2.00	
9253.00†	89.124	83.962	8195.18	1133.81	292.55	1117.06	603269.95	628598.95	32°43'39.593"N	103°59'51.074"W	2.00	

Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Aries) Sec 20, T18S, R30E	Wellbore	No. 4HY
Facility	Aries 20 Fed Com	Sidetrack from	No. 4H AWB at 7704.00 MD

WELLPATH DATA (67 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
9353.00†	89.127	85.962	8196.71	1233.77	301.33	1216.66	603369.53	628607.73	32°43'39.676"N	103°59'49.908"W	2.00	
9453.00†	89.131	87.962	8198.23	1333.75	306.63	1316.50	603469.37	628613.03	32°43'39.726"N	103°59'48.739"W	2.00	
9553.00†	89.136	89.963	8199.74	1433.62	308.44	1416.47	603569.33	628614.84	32°43'39.740"N	103°59'47.569"W	2.00	
9559.73	89.137	90.097	8199.84	1440.34	308.44	1423.20	603576.06	628614.83	32°43'39.740"N	103°59'47.490"W	2.00	TL
9653.00†	89.137	90.097	8201.25	1533.38	308.28	1516.46	603669.31	628614.67	32°43'39.736"N	103°59'46.398"W	0.00	
9753.00†	89.137	90.097	8202.75	1633.14	308.11	1616.45	603769.29	628614.50	32°43'39.731"N	103°59'45.228"W	0.00	
9853.00†	89.137	90.097	8204.26	1732.91	307.94	1716.43	603869.27	628614.33	32°43'39.726"N	103°59'44.057"W	0.00	
9953.00†	89.137	90.097	8205.76	1832.67	307.77	1816.42	603969.25	628614.16	32°43'39.721"N	103°59'42.887"W	0.00	
10053.00†	89.137	90.097	8207.27	1932.43	307.60	1916.41	604069.23	628613.99	32°43'39.716"N	103°59'41.717"W	0.00	
10153.00†	89.137	90.097	8208.78	2032.20	307.43	2016.40	604169.21	628613.82	32°43'39.711"N	103°59'40.546"W	0.00	
10253.00†	89.137	90.097	8210.28	2131.96	307.26	2116.39	604269.19	628613.65	32°43'39.707"N	103°59'39.376"W	0.00	
10353.00†	89.137	90.097	8211.79	2231.72	307.09	2216.38	604369.17	628613.48	32°43'39.702"N	103°59'38.206"W	0.00	
10453.00†	89.137	90.097	8213.30	2331.49	306.92	2316.37	604469.15	628613.31	32°43'39.697"N	103°59'37.035"W	0.00	
10553.00†	89.137	90.097	8214.80	2431.25	306.75	2416.35	604569.13	628613.14	32°43'39.692"N	103°59'35.865"W	0.00	
10653.00†	89.137	90.097	8216.31	2531.01	306.58	2516.34	604669.11	628612.97	32°43'39.687"N	103°59'34.694"W	0.00	
10753.00†	89.137	90.097	8217.82	2630.77	306.41	2616.33	604769.09	628612.80	32°43'39.682"N	103°59'33.524"W	0.00	
10853.00†	89.137	90.097	8219.32	2730.54	306.24	2716.32	604869.07	628612.63	32°43'39.677"N	103°59'32.354"W	0.00	
10953.00†	89.137	90.097	8220.83	2830.30	306.07	2816.31	604969.05	628612.46	32°43'39.673"N	103°59'31.183"W	0.00	
11053.00†	89.137	90.097	8222.34	2930.06	305.90	2916.30	605069.03	628612.30	32°43'39.668"N	103°59'30.013"W	0.00	
11153.00†	89.137	90.097	8223.84	3029.83	305.73	3016.28	605169.01	628612.13	32°43'39.663"N	103°59'28.842"W	0.00	
11253.00†	89.137	90.097	8225.35	3129.59	305.56	3116.27	605268.99	628611.96	32°43'39.658"N	103°59'27.672"W	0.00	
11353.00†	89.137	90.097	8226.85	3229.35	305.39	3216.26	605368.98	628611.79	32°43'39.653"N	103°59'26.502"W	0.00	
11453.00†	89.137	90.097	8228.36	3329.12	305.22	3316.25	605468.96	628611.62	32°43'39.648"N	103°59'25.331"W	0.00	
11553.00†	89.137	90.097	8229.87	3428.88	305.05	3416.24	605568.94	628611.45	32°43'39.643"N	103°59'24.161"W	0.00	
11653.00†	89.137	90.097	8231.37	3528.64	304.88	3516.23	605668.92	628611.28	32°43'39.638"N	103°59'22.990"W	0.00	
11753.00†	89.137	90.097	8232.88	3628.41	304.71	3616.22	605768.90	628611.11	32°43'39.634"N	103°59'21.820"W	0.00	
11853.00†	89.137	90.097	8234.39	3728.17	304.54	3716.20	605868.88	628610.94	32°43'39.629"N	103°59'20.650"W	0.00	
11953.00†	89.137	90.097	8235.89	3827.93	304.37	3816.19	605968.86	628610.77	32°43'39.624"N	103°59'19.479"W	0.00	
12053.00†	89.137	90.097	8237.40	3927.69	304.20	3916.18	606068.84	628610.60	32°43'39.619"N	103°59'18.309"W	0.00	
12153.00†	89.137	90.097	8238.91	4027.46	304.03	4016.17	606168.82	628610.43	32°43'39.614"N	103°59'17.138"W	0.00	

Planned Wellpath Report

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12253.00†	89.137	90.097	8240.41	4127.22	303.86	4116.16	606268.80	628610.26	32°43'39.609"N	103°59'15.968"W	0.00	
12353.00†	89.137	90.097	8241.92	4226.98	303.69	4216.15	606368.78	628610.09	32°43'39.604"N	103°59'14.798"W	0.00	
12453.00†	89.137	90.097	8243.43	4326.75	303.52	4316.14	606468.76	628609.92	32°43'39.599"N	103°59'13.627"W	0.00	
12553.00†	89.137	90.097	8244.93	4426.51	303.35	4416.12	606568.74	628609.75	32°43'39.594"N	103°59'12.457"W	0.00	
12653.00†	89.137	90.097	8246.44	4526.27	303.18	4516.11	606668.72	628609.58	32°43'39.589"N	103°59'11.286"W	0.00	
12753.00†	89.137	90.097	8247.94	4626.04	303.01	4616.10	606768.70	628609.41	32°43'39.584"N	103°59'10.116"W	0.00	
12756.70	89.137	90.097	8248.00	4629.73	303.00	4619.80	606772.40	628609.40	32°43'39.584"N	103°59'10.073"W	0.00	No. 4H PBHL

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No. 4HY PBHL	12756.70	8248.00	303.00	4619.80	606772.40	628609.40	32°43'39.584"N	103°59'10.073"W	point

SURVEY PROGRAM - Ref Wellbore: No. 4HY Ref Wellpath: Rev-A.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
3493.00	8053.00	ISCWSA MWD, Rev. 2 (Standard)		No. 4H AWB