

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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 page 2

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM128373
2. Name of Operator TEXAKOMA EXPL & PROD LLC		6. If Indian, Allottee or Tribe Name
Contact: BRIAN WOOD E-Mail: brian@permitswest.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 5601 GRANITE PARKWAY PLANO, TX 75024	3b. Phone No. (include area code) Ph: 505-466-8120	8. Well Name and No. LINDRITH 24-2-23 1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T24N R2W NESE 1735FSL 233FEL		9. API Well No. 30-039-31336-00-X1
		10. Field and Pool or Exploratory Area GAVILAN GREENHORN GRANERO DA Mancos
		11. County or Parish, State RIO ARRIBA COUNTY, NM

12. CHECK THE 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	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 recomple 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

See attached for proposed changes to original APD.

**ADHERE TO PREVIOUS NMOCD
CONDITIONS OF APPROVAL**

NMOCD
OCT 10 2019
DISTRICT III

H added to well # as well will be horizontal

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

Electronic Submission #486107 verified by the BLM Well Information System
For TEXAKOMA EXPL & PROD LLC, sent to the Rio Puerco
Committed to AFMSS for processing by JOHN HOFFMAN on 10/08/2019 (20JH0002SE)

Name (Printed/Typed) BRIAN WOOD	Title CONSULTANT
Signature (Electronic Submission)	Date 10/02/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JOHN HOFFMAN	Title PETROLEUM ENGINEER	Date 10/08/2019
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 Rio Puerco

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.

(Instructions on page 2)

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

Ar

Lindrith 24 2 23 #1 (30-039-31336)

Sundry Notice Changes for directional well

1. Bureau of Land Management: Bond No. NMB001721
Bond No. ROG0001598
2. New Mexico Oil Conservation Division: Organization ID: 329064
Bond No. ROG0001599
Lease Serial Number: NMNM-128373
3. Drilling Permit Depth: 8,250' TVD & 8438.5' MD – (rat hole for production tools)
4. Drilling Contractor: Aztec Drilling
5. Cores, Tests and Logs: No Drill Stem Tests are planned. 30 to 60 wireline rotary sidewall cores to be taken in the Mancos and Dakota sections. An open hole triple combo log will be run from the base of the surface casing to Total Depth. GEM and Dielectric to be run from Total Depth up to 2,800 ft. XRMI to be run from Total Depth up to 2,800 ft. MRIL to be run from Total Depth up to 2,800 ft. A mud logger will be on site from 850 ft. to Total Depth
6. Run 9 5/8", 36.0 lb/ft, J-55, BT&C surface casing from surface to 850 ft. instead of running 500 ft. of K-55, LT&C casing (to get below all Fresh Water)
New Lead Cement Volume: 130 sx (125 cu. ft.) Same Cement
New Tail Cement Volume: 160 sx (293 cu. ft.) Same Cement
7. Run 5 1/2", 17.0 lb/ft, HCP-110, LT&C production casing instead of 5 1/2", 17.0 lb/ft, J-55, LT&C casing (This new casing is stronger and has much higher design safety factors).
8. New 1st stage Production Casing Tail Cement Volume: 95 sx (198 cu. ft.) Same Cement (for adding the extra 100 ft of rathole)
9. New 2nd stage Production Casing Lead Cement Volume: 440 sx (1,317 cu. ft.) Same Cement (the proposal left off cementing the second stage lead cement from 4,650 ft. to 2,700 ft.)
10. Directional Well Plan is attached.



Texakoma E & P, LLC
Rio Arriba, NM (NAD 83)
Lindrith 24-2-23 #1
Plan 2
GL: 7284' + Est RKB:20'



US State Plane 1983
North American Datum 1983
GRS 1980
New Mexico Western Zone
Mean Sea Level

RKB Elevation: Well @ 7304.00usft (GL: 7284' + Est RKB:20')

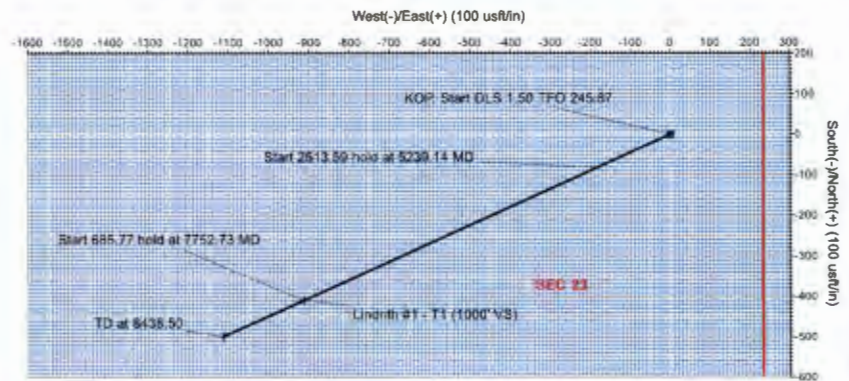
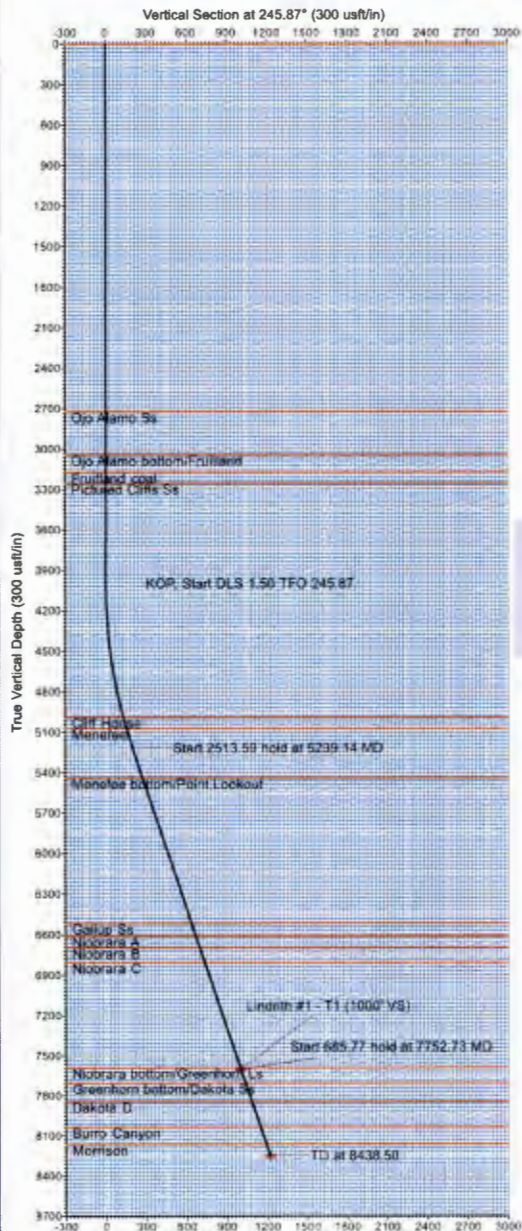
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	1927207.78	2965384.76	36.293624	-107.011137	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00
3	5239.14	18.59	245.87	5217.52	-81.45	-181.82	1.50	199.23
4	7752.73	18.59	245.87	7600.00	-409.00	-913.00	0.00	1000.43
5	8438.50	18.59	245.87	8250.00	-498.36	-1112.49	0.00	1219.01

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Lindrith #1 - T1 (1000' VS)	7600.00	-409.00	-913.00	1928798.78	2964471.76
Lindrith #1 - TD	8250.00	-498.36	-1112.49	1926709.42	2964272.28



Azimuths to Grid North
True North: -0.49°
Magnetic North: 8.40°
Magnetic Field
Strength: 49430.2nT
Dip Angle: 62.92°
Date: 10/1/2019
Model: HDGM

Azimuth Corrections

Total Magnetic Corr. (M to G): 8.40°

Declination (M to T): 8.88° East

Company:	Texakoma E & P, LLC	Local Co-ordinate Reference:	Well Lindrith 24-2-23 #1
Project:	Rio Arriba, NM (NAD 83)	TVD Reference:	Well @ 7304.00usft (GL: 7284' + Est RKB:20')
Site:	Lindrith 24-2-23	MD Reference:	Well @ 7304.00usft (GL: 7284' + Est RKB:20')
Well:	Lindrith 24-2-23 #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2	Database:	WellPlanner1

Project	Rio Arriba, NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Lindrith 24-2-23			
Site Position:		Northing:	1,927,207.78 usft	Latitude: 36.293624
From:	Map	Easting:	2,965,384.76 usft	Longitude: -107.011137
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.49 °

Well	Lindrith 24-2-23 #1			
Well Position	+N/-S	0.00 usft	Northing:	1,927,207.78 usft
	+E/-W	0.00 usft	Easting:	2,965,384.76 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft
			Ground Level:	7,284.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/1/2019	8.88	62.92	49,430.20

Design	Plan 2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	245.87

Survey Tool Program	Date	10/1/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	8,438.50	Plan 2 (OH)	MWD+HDGM	OWSG MWD + HRGM

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
San Jose									
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

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Well:	Lindrith 24-2-23 #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2	Database:	WellPlanner1

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)
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
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,724.00	0.00	0.00	2,724.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo Ss									
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,044.00	0.00	0.00	3,044.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo bottom/Fruitland									
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,174.00	0.00	0.00	3,174.00	0.00	0.00	0.00	0.00	0.00	0.00
Fruitland coal									
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,256.00	0.00	0.00	3,256.00	0.00	0.00	0.00	0.00	0.00	0.00
Pictured Cliffs Ss									
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Start DLS 1.50 TFO 245.87									
4,100.00	1.50	245.87	4,099.99	-0.54	-1.19	1.31	1.50	1.50	0.00
4,200.00	3.00	245.87	4,199.91	-2.14	-4.78	5.23	1.50	1.50	0.00
4,300.00	4.50	245.87	4,299.69	-4.81	-10.75	11.77	1.50	1.50	0.00
4,400.00	6.00	245.87	4,399.27	-8.55	-19.10	20.92	1.50	1.50	0.00

Company:	Texakoma E & P, LLC	Local Co-ordinate Reference:	Well Lindrith 24-2-23 #1
Project:	Rio Arriba, NM (NAD 83)	TVD Reference:	Well @ 7304.00usft (GL: 7284' + Est RKB:20')
Site:	Lindrith 24-2-23	MD Reference:	Well @ 7304.00usft (GL: 7284' + Est RKB:20')
Well:	Lindrith 24-2-23 #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2	Database:	WellPlanner1

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)
4,500.00	7.50	245.87	4,498.57	-13.36	-29.82	32.68	1.50	1.50	0.00
4,600.00	9.00	245.87	4,597.54	-19.23	-42.92	47.03	1.50	1.50	0.00
4,700.00	10.50	245.87	4,696.09	-26.15	-58.37	63.96	1.50	1.50	0.00
4,800.00	12.00	245.87	4,794.16	-34.12	-76.18	83.47	1.50	1.50	0.00
4,900.00	13.50	245.87	4,891.70	-43.15	-96.32	105.54	1.50	1.50	0.00
5,000.00	15.00	245.87	4,988.62	-53.21	-118.78	130.15	1.50	1.50	0.00
5,000.40	15.01	245.87	4,989.00	-53.25	-118.87	130.26	1.50	1.50	0.00
Cliff House									
5,086.60	16.30	245.87	5,072.00	-62.76	-140.10	153.51	1.50	1.50	0.00
Menefee									
5,100.00	16.50	245.87	5,084.86	-64.31	-143.55	157.30	1.50	1.50	0.00
5,200.00	18.00	245.87	5,180.36	-76.43	-170.61	186.95	1.50	1.50	0.00
5,239.14	18.59	245.87	5,217.52	-81.45	-181.82	199.23	1.50	1.50	0.00
Start 2513.59 hold at 5239.14 MD									
5,300.00	18.59	245.87	5,275.21	-89.38	-199.53	218.63	0.00	0.00	0.00
5,400.00	18.59	245.87	5,369.99	-102.41	-228.62	250.51	0.00	0.00	0.00
5,473.86	18.59	245.87	5,440.00	-112.04	-250.10	274.05	0.00	0.00	0.00
Menefee bottom/Point Lookout									
5,500.00	18.59	245.87	5,464.77	-115.45	-257.71	282.38	0.00	0.00	0.00
5,600.00	18.59	245.87	5,559.56	-128.48	-286.80	314.26	0.00	0.00	0.00
5,700.00	18.59	245.87	5,654.34	-141.51	-315.89	346.13	0.00	0.00	0.00
5,800.00	18.59	245.87	5,749.13	-154.54	-344.97	378.01	0.00	0.00	0.00
5,900.00	18.59	245.87	5,843.91	-167.57	-374.06	409.88	0.00	0.00	0.00
6,000.00	18.59	245.87	5,938.69	-180.60	-403.15	441.76	0.00	0.00	0.00
6,100.00	18.59	245.87	6,033.48	-193.63	-432.24	473.63	0.00	0.00	0.00
6,200.00	18.59	245.87	6,128.26	-206.66	-461.33	505.51	0.00	0.00	0.00
6,300.00	18.59	245.87	6,223.05	-219.69	-490.42	537.38	0.00	0.00	0.00
6,400.00	18.59	245.87	6,317.83	-232.72	-519.51	569.25	0.00	0.00	0.00
6,500.00	18.59	245.87	6,412.61	-245.76	-548.60	601.13	0.00	0.00	0.00
6,600.00	18.59	245.87	6,507.40	-258.79	-577.69	633.00	0.00	0.00	0.00
6,606.97	18.59	245.87	6,514.00	-259.69	-579.71	635.22	0.00	0.00	0.00
Gallup Ss									
6,700.00	18.59	245.87	6,602.18	-271.82	-606.78	664.88	0.00	0.00	0.00
6,709.30	18.59	245.87	6,611.00	-273.03	-609.48	667.84	0.00	0.00	0.00
Niobrara A									
6,800.00	18.59	245.87	6,696.97	-284.85	-635.87	696.75	0.00	0.00	0.00
6,800.04	18.59	245.87	6,697.00	-284.85	-635.88	696.76	0.00	0.00	0.00
Niobrara B									
6,900.00	18.59	245.87	6,791.75	-297.88	-664.95	728.63	0.00	0.00	0.00
6,915.03	18.59	245.87	6,806.00	-299.84	-669.33	733.42	0.00	0.00	0.00
Niobrara C									
7,000.00	18.59	245.87	6,886.53	-310.91	-694.04	760.50	0.00	0.00	0.00
7,100.00	18.59	245.87	6,981.32	-323.94	-723.13	792.38	0.00	0.00	0.00
7,200.00	18.59	245.87	7,076.10	-336.97	-752.22	824.25	0.00	0.00	0.00

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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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)
7,300.00	18.59	245.87	7,170.89	-350.00	-781.31	856.12	0.00	0.00	0.00
7,400.00	18.59	245.87	7,265.67	-363.04	-810.40	888.00	0.00	0.00	0.00
7,500.00	18.59	245.87	7,360.45	-376.07	-839.49	919.87	0.00	0.00	0.00
7,600.00	18.59	245.87	7,455.24	-389.10	-868.58	951.75	0.00	0.00	0.00
7,700.00	18.59	245.87	7,550.02	-402.13	-897.67	983.62	0.00	0.00	0.00
7,740.07	18.59	245.87	7,588.00	-407.35	-909.32	996.39	0.00	0.00	0.00
Niobrara bottom/Greenhorn Ls									
7,752.73	18.59	245.87	7,600.00	-409.00	-913.00	1,000.43	0.00	0.00	0.00
Start 685.77 hold at 7752.73 MD									
7,800.00	18.59	245.87	7,644.81	-415.16	-926.76	1,015.50	0.00	0.00	0.00
7,864.56	18.59	245.87	7,706.00	-423.57	-945.54	1,036.08	0.00	0.00	0.00
Greenhorn bottom/Dakota Ss									
7,900.00	18.59	245.87	7,739.59	-428.19	-955.85	1,047.37	0.00	0.00	0.00
8,000.00	18.59	245.87	7,834.37	-441.22	-984.93	1,079.25	0.00	0.00	0.00
8,011.21	18.59	245.87	7,845.00	-442.68	-988.20	1,082.82	0.00	0.00	0.00
Dakota D									
8,100.00	18.59	245.87	7,929.16	-454.25	-1,014.02	1,111.12	0.00	0.00	0.00
8,200.00	18.59	245.87	8,023.94	-467.28	-1,043.11	1,142.99	0.00	0.00	0.00
8,211.67	18.59	245.87	8,035.00	-468.80	-1,046.51	1,146.71	0.00	0.00	0.00
Burro Canyon									
8,300.00	18.59	245.87	8,118.73	-480.31	-1,072.20	1,174.87	0.00	0.00	0.00
8,348.82	18.59	245.87	8,165.00	-486.68	-1,086.40	1,190.43	0.00	0.00	0.00
Morrison									
8,400.00	18.59	245.87	8,213.51	-493.35	-1,101.29	1,206.74	0.00	0.00	0.00
8,438.50	18.59	245.87	8,250.00	-498.36	-1,112.49	1,219.01	0.00	0.00	0.00
TD at 8438.50									

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									
Lindrith #1 - T1 (1000' V	0.00	0.00	7,600.00	-409.00	-913.00	1,926,798.78	2,964,471.76	36.292522	-107.014247
- plan hits target center									
- Point									
Lindrith #1 - TD	0.00	0.00	8,250.00	-498.36	-1,112.49	1,926,709.42	2,964,272.27	36.292281	-107.014926
- plan hits target center									
- Point									

Company:	Texakoma E & P, LLC	Local Co-ordinate Reference:	Well Lindrith 24-2-23 #1
Project:	Rio Arriba, NM (NAD 83)	TVD Reference:	Well @ 7304.00usft (GL: 7284' + Est RKB:20')
Site:	Lindrith 24-2-23	MD Reference:	Well @ 7304.00usft (GL: 7284' + Est RKB:20')
Well:	Lindrith 24-2-23 #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2	Database:	WellPlanner1

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
0.00	0.00	San Jose		0.00		
2,724.00	2,724.00	Ojo Alamo Ss		0.00		
3,044.00	3,044.00	Ojo Alamo bottom/Fruitland		0.00		
3,174.00	3,174.00	Fruitland coal		0.00		
3,256.00	3,256.00	Pictured Cliffs Ss		0.00		
5,000.40	4,989.00	Cliff House		0.00		
5,086.60	5,072.00	Menefee		0.00		
5,473.86	5,440.00	Menefee bottom/Point Lookout		0.00		
6,606.97	6,514.00	Gallup Ss		0.00		
6,709.30	6,611.00	Niobrara A		0.00		
6,800.04	6,697.00	Niobrara B		0.00		
6,915.03	6,806.00	Niobrara C		0.00		
7,740.07	7,588.00	Niobrara bottom/Greenhorn Ls		0.00		
7,864.56	7,706.00	Greenhorn bottom/Dakota Ss		0.00		
8,011.21	7,845.00	Dakota D		0.00		
8,211.67	8,035.00	Burro Canyon		0.00		
8,348.82	8,165.00	Morrison		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
4000	4000	0	0	KOP, Start DLS 1.50 TFO 245.87	
5239	5218	-81	-182	Start 2513.59 hold at 5239.14 MD	
7753	7600	-409	-913	Start 685.77 hold at 7752.73 MD	
8438	8250	-498	-1112	TD at 8438.50	

Checked By: _____	Approved By: _____	Date: _____
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