UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

SUNDRY Do not use thi	NOTICES AND REPO	RTS ON WE	enter an		5. Lease Serial No. NOG13121857	T 1 N
abandoned wel	II. Use form 3160-3 (AP	D) for such p	roposals.		6. If Indian, Allottee o	
SUBMIT IN	TRIPLICATE - Other ins	tructions on	page 2		7. If Unit or CA/Agree NMNM135216A	ement, Name and/or No.
Type of Well ☐ Gas Well ☐ Oth	ner				8. Well Name and No. W LYBROOK UNI	T 756¥ H
2. Name of Operator ENDURING RESOURCES LL	Contact: .C E-Mail: Igranillo@	LACEY GRA			9. API Well No. 30-045-35819-0	0-X1 30-045-38262
3a. Address 1050 17TH STREET SUITE 2 DENVER, CO 80265	500	3b. Phone No Ph: 505-63	. (include area code) 6-9743		10. Field and Pool or I LYBROOK MAN	Exploratory Area
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description	n)			11. County or Parish, S	State
Sec 23 T23N R9W NWSE 26 ⁻ 36.212357 N Lat, 107.756287					SAN JUAN COL	JNTY, NM
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	IER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
Notice of Intent ■	☐ Acidize	□ Dee	pen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off
_	☐ Alter Casing	☐ Hyd	raulic Fracturing	☐ Reclam	ation	☐ Well Integrity
☐ Subsequent Report	□ Casing Repair	□ New	Construction	☐ Recomp	olete	Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug	and Abandon	□ Tempor	arily Abandon	Change to Original A PD
	☐ Convert to Injection	☐ Plug	Back	☐ Water I	Disposal	
13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for final	ally or recomplete horizontally, k will be performed or provide operations. If the operation re bandonment Notices must be fil	give subsurface the Bond No. or sults in a multipl	locations and measu of file with BLM/BIA e completion or reco	red and true ve Required sul mpletion in a i	ertical depths of all pertings because the reports must be new interval, a Form 3160	ent markers and zones. filed within 30 days 0-4 must be filed once
Enduring Resources is reques	ting the following change	es:				
Casing program- As part of the casing program Installing a larger surface casi already been installed. Attachments: Updated C102 (SHL moved 3: Updated directional drilling pla Updated drilling procedure (to casing program)	ng will require a new SHI 5?; POE and BHL did not in (updated to reflect new	because the tchange)	existing surface	casing has		
14. I hereby certify that the foregoing is	Electronic Submission #	RESOURCES	LLC, sent to the	Farmington		
Name (Printed/Typed) LACEY G	•			TING SPE	•	
Signature (Electronic S	Submission)		Date 02/25/2	020		
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE U	SE	
Approved By JOE KILLINS			TitlePETROLE	UM ENGINI	EER	Date 03/06/2020
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to conductive the conductive transfer of the conductive t	iitable title to those rights in the	s not warrant or e subject lease	Office Farming	ton		
Fitle 18 U.S.C. Section 1001 and Title 43	U.S.C. Section 1212, make it a	crime for any pe	rson knowingly and	willfully to ma	ake to any department or	agency of the United

Additional data for EC transaction #504499 that would not fit on the form

32. Additional remarks, continued

Requesting a new API # for new SHL, awaiting NMOCD approval and distribution of new #.

Revisions to Operator-Submitted EC Data for Sundry Notice #504499

Operator Submitted BLM Revised (AFMSS)

APDCH **APDCH** Sundry Type: NOI NOI

Lease: N0G13121857 N0G13121857

Agreement: NMNM135216A NMNM135216A (NMNM135216A)

Operator: **ENDURING RESOURCES IV LLC ENDURING RESOURCES LLC** 200 ENERGY CT 1050 17TH STREET SUITE 2500

FARMINGTON, NM 87401 Ph: 505-636-9743 DENVER, CO 80265 Ph: 5053868205

LACEY GRANILLO PERMITTING SPECIALIST LACEY GRANILLO Admin Contact:

PERMITTING SPECIALIST

E-Mail: lgranillo@enduringresources.com E-Mail: lgranillo@enduringresources.com

Ph: 505-636-9743 Ph: 505-636-9743

LACEY GRANILLO PERMITTING SPECIALIST Tech Contact:

LACEY GRANILLO PERMITTING SPECIALIST

E-Mail: Igranillo@enduringresources.com E-Mail: Igranillo@enduringresources.com

Ph: 505-636-9743 Ph: 505-636-9743

Location:

State: NM SAN JUAN County: SAN JUAN

Field/Pool: LYBROOK MANCOS W LYBROOK MANCOS W

Well/Facility: W LYBROOK UNIT 756H W LYBROOK UNIT 756Y

Sec 23 T23N R9W Mer NMP NWSE 2596FSL 2115FEL Sec 23 T23N R9W NWSE 2618FSL 2088FEL

36.212296 N Lat, 107.756378 W Lon 36.212357 N Lat, 107.756287 W Lon District I 1625 N. French Drive, Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First Street, Artesia, NM 88210 Phone (575) 748-1283 Fax (575) 748-9720

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone: (505) 476–3460 Fax: (505) 476–3462

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 1, 2011

Submit one copy to

Appropriate District Office

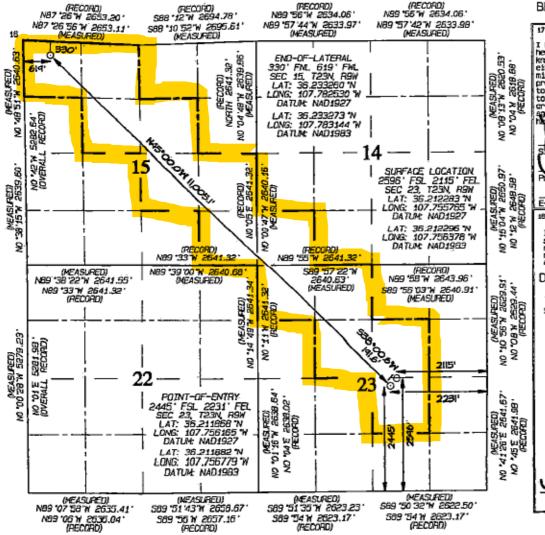
OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe, NM 87505

AMENDED REPORT

		WELL	LUCATION	AND	ACHEAGE	DEDTCY LTON	PLAT		
	Number		Pool Code			*P00	l Name		
30-045-3	8262		98157			LYBROOK	MANÇOS	M	
*Property Cod	e			*Pn	operty Name			\top	Well Number
321259				W LY	BROOK UNI	Γ			756H
'OGRID No.				*0pe	erator Name				*Elevation
372286			ENDU	RING	RESOURCES	S. LLC		- 1	67191

¹⁰ Surface Location Feet free the East/Nest ling North/South Line Lt. or lot no. Sect ion Feet, from the SOUTH 2115 EAST SAN JUAN 23 23N 9W 2596 Bottom Hole Location If Different From Surface UL or lot no. Sect for Township Feet from the North/South line Feet from the East/West Time County NES. WEST SAN JUAN 9W NORTH 619 D 15 330 Dedicated Acres Order No. Joint or Infill Corsolidation Code 12,807.24 Acres 520.00 R-14051 -SW/4 SW/4 - Section 14 N/2 NW/4, SE/4 NW/4, SW/4 NE/4 N/2 SE/4, SE/4 SE/4 - Section 15

NO ALLOWABLE WILL BE ASSIGNED N/2 NW/4 SE/4 NW/4 SW/4 NE/4, NW/4 SE/4 - Section 23 TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS (RECORD) NS9 "55"W 2634.06" BEEN APPROVED BY THE DIVISION (RECORD)



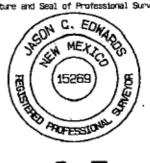
OPERATOR CERTIFICATION "OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unlessed mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interests or to a voluntary pooling agreement or a fonulisary pooling agreement or a fonulisary pooling order interests or the division.

CENTIFICATION

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.

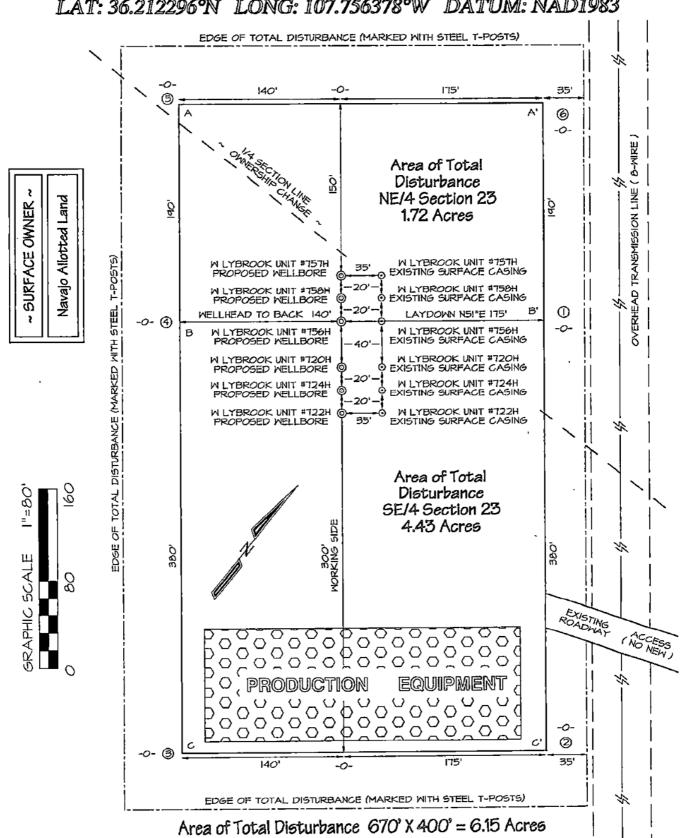
Date Revised: FEBRUARY 20, 2020 Survey Date: OCTOBER 19, 2015

Signature and Seal of Professional Surveyor



Jason Certificate Number





Steel T-Posts have been set to define Edge of Disturbance limits which are 50° offset from edge of wellpad, unless otherwise noted, more specifically as being 35° wide on East side of proposed wellpad as shown.



Enduring Resources LLC

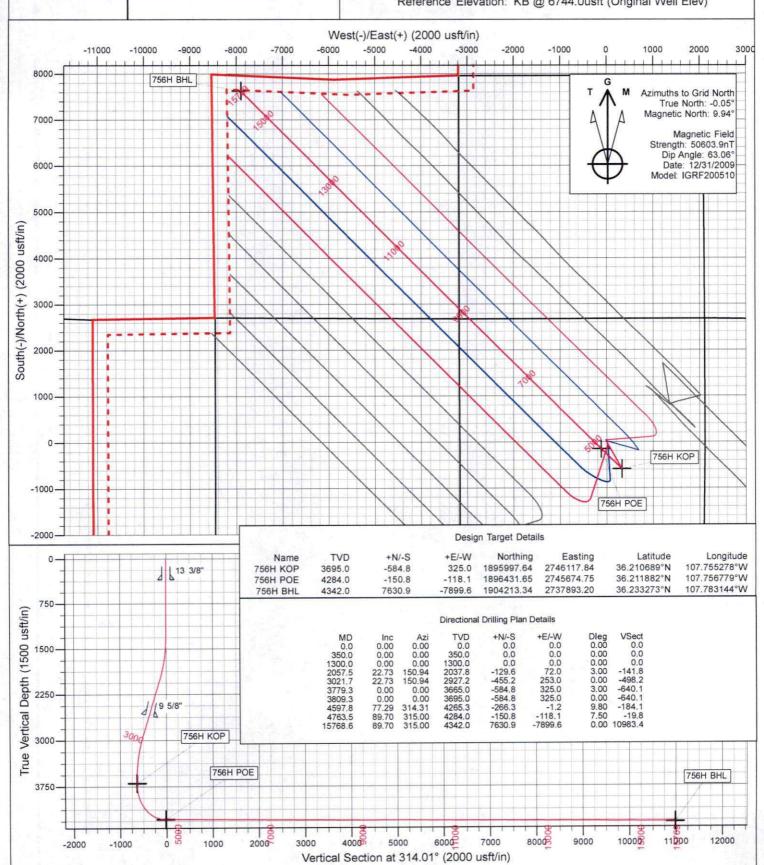
Directional Drilling Plan Plan View & Section View

W Lybrook Unit 756H

San Juan County, New Mexico T23N - R09W - Sec.23 Surface Latitude: 36.212296°N Surface Longitude: 107.756378°W

Ground Level: 6719.0

Reference Elevation: KB @ 6744.0usft (Original Well Elev)





Enduring Resources LLC

San Juan Basin - W Lybrook Unit 720H Pad 756H

Wellbore #1

Plan: Design #1

Standard Planning Report

24 February, 2020



Database: Company: EDM

Enduring Resources LLC

Project: Site:

San Juan Basin - W Lybrook Unit

720H Pad Well: 756H Wellbore: Wellbore #1 Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well 756H

KB @ 6744.0usft (Original Well Elev) KB @ 6744.0usft (Original Well Elev)

Grid

Minimum Curvature

Project

San Juan Basin - W Lybrook Unit, San Juan County, New Mexico

Map System:

US State Plane 1983 North American Datum 1983

System Datum:

Mean Sea Level

Geo Datum: Map Zone:

New Mexico Western Zone

720H Pad, San Juan County, New Mexico Site

Site Position: From:

Lat/Long

Northing: Easting:

1,896,551.52 usft 2,745,817.94 usft

Latitude: Longitude:

36.212211°N 107.756294°W

Position Uncertainty:

0.0 usft Slot Radius:

13-3/16

Grid Convergence:

0.05

Well 756H

Well Position

+N/-S +E/-W

30.9 usft -25.1 usft Northing: Easting:

1,896,582,45 usft 2,745,792.84 usft Latitude: Longitude:

36.212296°N 107.756379°W

Position Uncertainty

0.0 usft

Wellhead Elevation:

Ground Level:

6,719.0 usft

Wellbore Wellbore #1

Declination Dip Angle Field Strength **Model Name** Magnetics Sample Date (°) (nT) (°) 63.06 50,603.88611152 9.99 IGRF200510 12/31/2009

Design

Design #1

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.0

Vertical Section:

Depth From (TVD) (usft)

0.0

+N/-S (usft) 0.0

+E/-W (usft) 0.0

Direction (°) 314.01

Plan Survey Tool Program

2/24/2020 Date

Depth From Depth To (usft)

Survey (Wellbore) (usft)

Tool Name

Remarks

0.0 Design #1 (Wellbore #1) MWD 15,768.6

OWSG MWD - Standard

COMPASS 5000.15 Build 88 2/24/2020 8:01:58AM Page 2



Database: Company: EDM

Enduring Resources LLC San Juan Basin - W Lybrook Unit Project:

720H Pad Site: 756H Well: Wellbore #1 Wellbore: Design: Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Well 756H

KB @ 6744.0usft (Original Well Elev) KB @ 6744.0usft (Original Well Elev)

Grid

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,057.5	22.73	150.94	2,037.8	-129.6	72.0	3.00	3.00	0.00	150.94	
3,021.7	22.73	150.94	2,927.2	-455.2	253.0	0.00	0.00	0.00	0.00	
3,779.3	0.00	0.00	3,665.0	-584.8	325.0	3.00	-3.00	0.00	180.00	
3,809.3	0.00	0.00	3,695.0	-584.8	325.0	0.00	0.00	0.00	0.00	756H KOP
4,597.8	77.29	314.31	4,265.3	-266.3	-1.2	9.80	9.80	0.00	314.31	
4,763.5	89.70	315.00	4,284.0	-150.8	-118.1	7.50	7.49	0.41	3.19	756H POE
15,768.6	89.70	315.00	4,342.0	7,630.9	-7,899.6	0.00	0.00	0.00	0.00	756H BHL



Database: Company: EDM

Enduring Resources LLC

San Juan Basin - W Lybrook Unit Project: 720H Pad Site:

756H Well: Wellbore: Wellbore #1 Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Survey Calculation Method:

North Reference:

Well 756H

KB @ 6744.0usft (Original Well Elev) KB @ 6744.0usft (Original Well Elev)

Released to Imaging: 6/23/2021 3:19:56 PM

Grid

ed Survey									
ed Survey Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
(uait)	()	()	(uoit)	(usit)	(usit)	(40.0)	(, , , , , , , , , , , , , , , , , , ,		
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
13 3/8"									
376.0	0.00	0.00	376.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.00	0.00	370.0	0.0	0.0	0.0	0.00	0.00	0.00
Ojo Alamo	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
474.0	0.00	0.00	474.0	0.0	0.0	0.0	0.00	0.00	0.00
Kirtland			N. W. aleman	No. of Concession, Name of Street, or other party of the last of t	STATE IN	No.		the Warran	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
680.0	0.00	0.00	680.0	0.0	0.0	0.0	0.00	0.00	0.00
Fruitland	20240144	e stage dint	arther religions	Francisco	A PRINCIPAL OF THE PARTY OF THE		PERMIT		
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0									
1,044.0	0.00	0.00	1,044.0	0.0	0.0	0.0	0.00	0.00	0.00
Pictured Clif									
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,259.0	0.00	0.00	1,259.0	0.0	0.0	0.0	0.00	0.00	0.00
Lewis									
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	3.00	150.94	1,400.0	-2.3	1.3	-2.5	3.00	3.00	0.00
1,414.1	3.42	150.94	1,414.0	-3.0	1.7	-3.3	3.00	3.00	0.00
Chacra	ENERS IN SEC			1 - 340 - 3		Children Co.			
1,500.0	6.00	150.94	1,499.6	-9.1	5.1	-10.0	3.00	3.00	0.00
		150.94	1,499.6	-20.6	11.4	-22.5	3.00	3.00	0.00
1,600.0 1,700.0	9.00 12.00	150.94	1,697.1	-36.5	20.3	-39.9	3.00	3.00	0.00
1,700.0	12.00								
1,800.0	15.00	150.94	1,794.3	-56.9	31.6	-62.3	3.00	3.00	0.00
1,900.0	18.00	150.94	1,890.2	-81.7	45.4	-89.4	3.00	3.00	0.00
2,000.0	21.00	150.94	1,984.4	-110.9	61.6	-121.4	3.00	3.00	0.00
2,057.5	22.73	150.94	2,037.8	-129.6	72.0	-141.8	3.00	3.00	0.00
2,100.0	22.73	150.94	2,077.0	-143.9	80.0	-157.5	0.00	0.00	0.00
2,200.0	22.73	150.94	2,169.2	-177.7	98.8	-194.5	0.00	0.00	0.00
2,300.0	22.73	150.94	2,261.5	-211.5	117.5	-231.5	0.00	0.00	0.00
2,400.0	22.73	150.94	2,353.7	-245.2	136.3	-268.4	0.00	0.00	0.00
2,500.0	22.73	150.94	2,445.9	-279.0	155.1	-305.4	0.00	0.00	0.00
2,539.1	22.73	150.94	2,482.0	-292.2	162.4	-319.8	0.00	0.00	0.00
Cliff House	22.75	INTER MANAGEMENT			SURFERENCE				
			The state of the s			122.5			2.25
2,552.1	22.73	150.94	2,494.0	-296.6	164.8	-324.6	0.00	0.00	0.00
Menefee						Later Hotel	THE RESERVE	THE PARTY OF THE P	
2,600.0	22.73	150.94	2,538.2	-312.8	173.8	-342.3	0.00	0.00	0.00
2,660.5	22.73	150.94	2,594.0	-333.2	185.2	-364.7	0.00	0.00	0.00
9 5/8"									
2,700.0	22.73	150.94	2,630.4	-346.6	192.6	-379.3	0.00	0.00	0.00
2,800.0	22.73	150.94	2,722.7	-380.3	211.4	-416.3	0.00	0.00	0.00
						-453.2	0.00	0.00	0.00
2,900.0	22.73	150.94	2,814.9	-414.1	230.1 248.9	-490.2	0.00	0.00	0.00
3,000.0	22.73	150.94	2,907.1	-447.9	248.9	-490.2	0.00	0.00	0.00



Database: Company: EDM

Enduring Resources LLC

Project: Site: Well:

Wellbore:

San Juan Basin - W Lybrook Unit 720H Pad 756H Wellbore #1

EDM Enduring Resources LLC Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well 756H

KB @ 6744.0usft (Original Well Elev) KB @ 6744.0usft (Original Well Elev)

Grid

sign:	Design #1					(Charles	Samuel Street		
nned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
	to all a set		Depth	, NU C		Section	Rate	Rate	Rate
Depth	Inclination	Azimuth	Marin Committee of	+N/-S	+E/-W				
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
3,100.0	20.38	150.94	3,000.0	-480.3	266.9	-525.7	3.00	-3.00	0.00
3,200.0	17.38	150.94	3,094.6	-508.6	282.7	-556.7	3.00	-3.00	0.00
3,300.0	14.38	150.94	3,190.7	-532.5	295.9	-582.8	3.00	-3.00	0.00
3,400.0	11.38	150.94	3.288.2	-552.0	306.8	-604.1	3.00	-3.00	0.00
3,500.0	8.38	150.94	3,386.7	-567.0	315.1	-620.6	3.00	-3.00	0.00
3,577.9	6.04	150.94	3,464.0	-575.5	319.8	-629.9	3.00	-3.00	0.00
100450-000		100.04	0,404.0	-070.0	010.0	020.0	0.00	0.00	V. 100
Point Look 3,600.0	5.38	150.94	3,486.0	-577.5	320.9	-632.0	3.00	-3.00	0.00
3,600.0									
3,700.0	2.38	150.94	3,585.8	-583.4	324.2	-638.5	3.00	-3.00	0.00
3,779.3	0.00	0.00	3,665.0	-584.8	325.0	-640.1	3.00	-3.00	0.00
3,800.0	0.00	0.00	3,685.7	-584.8	325.0	-640.1	0.00	0.00	0.00
3,809.3	0.00	0.00	3,695.0	-584.8	325.0	-640.1	0.00	0.00	0.00
3,833.3	2.35	314.31	3,719.0	-584.5	324.6	-639.6	9.80	9.80	0.00
Mancos	2.55	314.31	0,7 10.0	-504.5	524.0	000,0	3.00	3.00	0.00
	5.55				222.2	***	-		
3,900.0	8.89	314.31	3,785.4	-579.9	320.0	-633.0	9.80	9.80	0.00
4,000.0	18.69	314.31	3,882.4	-563.3	302.9	-609.2	9.80	9.80	0.00
4,068.7	25.43	314.31	3,946.0	-545.2	284.5	-583.4	9.80	9.80	0.00
Gallup (MN	CS_A)								
4,100.0	28.49	314.31	3,973.9	-535.3	274.3	-569.2	9.80	9.80	0.00
4,183.3	36.66	314.31	4,044.0	-504.0	242.3	-524.4	9.80	9.80	0.00
MNCS_B					USSAFE	Statement of	945 F F F		
		OESTENSTINE TO		7222					
4,200.0	38.30	314.31	4,057.3	-496.9	235.0	-514.3	9.80	9.80	0.00
4,300.0	48.10	314.31	4,130.1	-449.2	186.1	-445.9	9.80	9.80	0.00
4,374.2	55.37	314.31	4,176.0	-408.5	144.4	-387.7	9.80	9.80	0.00
MNCS_C -	MNCS_Cms								
4,400.0	57.90	314.31	4,190.2	-393.4	129.0	-366.1	9.80	9.80	0.00
4,500.0	67.70	314.31	4,235.9	-331.4	65.4	-277.3	9.80	9.80	0.00
	77.00	214 21	4.265.2	-266.3	-1.2	-184.1	9.80	9.80	0.00
4,597.8	77.29	314.31	4,265.3					7.49	0.43
4,600.0	77.45	314.32	4,265.7	-264.8	-2.7	-182.0	7.50		
4,700.0	84.94	314.74	4,281.0	-195.6	-73.1	-83.3	7.50	7.49	0.42
4,763.5	89.70	315.00	4,284.0	-150.8	-118.1	-19.8	7.50	7.49	0.41
MNCS_Cm	s (TARGET)							NO MARKET	The state of
4,800.0	89.70	315.00	4,284.2	-125.0	-143.9	16.6	0.00	0.00	0.00
4.900.0	89.70	315.00	4,284.7	-54.3	-214.6	116.6	0.00	0.00	0.00
5,000.0	89.70	315.00	4,285.2	16.4	-285.3	216.6	0.00	0.00	0.00
5,100.0	89.70	315.00	4,285.8	87.1	-356.0	316.6	0.00	0.00	0.00
					-426.7	416.6	0.00	0.00	0.00
5,200.0	89.70 89.70	315.00 315.00	4,286.3 4,286.8	157.8 228.5	-426.7 -497.4	516.6	0.00	0.00	0.00
5,300.0									
5,400.0	89.70	315.00	4,287.4	299.3	-568.1	616.5	0.00	0.00	0.00
5,500.0	89.70	315.00	4,287.9	370.0	-638.9	716.5	0.00	0.00	0.00
5,600.0		315.00	4,288.4	440.7	-709.6	816.5	0.00	0.00	0.00
5,700.0		315.00	4,288.9	511.4	-780.3	916.5	0.00	0.00	0.00
5,800.0		315.00	4,289.5	582.1	-851.0	1,016.5	0.00	0.00	0.00
							0.00	0.00	0.00
5,900.0		315.00	4,290.0	652.8	-921.7	1,116.5		0.00	0.00
6,000.0		315.00	4,290.5	723.5	-992.4	1,216.4	0.00		
6,100.0	89.70	315.00	4,291.0	794.2	-1,063.1	1,316.4	0.00	0.00	0.00
6,200.0	89.70	315.00	4,291.6	864.9	-1,133.8	1,416.4	0.00	0.00	0.00
6,300.0	89.70	315.00	4,292.1	935.7	-1,204.5	1,516.4	0.00	0.00	0.00
6,400.0	89.70	315.00	4,292.6	1,006.4	-1,275.2	1,616.4	0.00	0.00	0.00
6,500.0		315.00	4,293.2	1,077.1	-1,345.9	1,716.4	0.00	0.00	0.00
		315.00	4,293.7	1,147.8	-1,416.6	1,816.3	0.00	0.00	0.00
6,600.0						1,916.3	0.00	0.00	0.00
6,700.0		315.00	4,294.2	1,218.5 1,289.2	-1,487.4 -1,558.1	2,016.3	0.00	0.00	0.00
6,800.0	89.70	315.00	4,294.7	1 284 2	-1 228]	/ 1110 3	0.00	0.00	0.00



Database: Company: EDM

Design #1

Enduring Resources LLC

Project: Site:

Design:

San Juan Basin - W Lybrook Unit 720H Pad Well: 756H Wellbore: Wellbore #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well 756H

KB @ 6744.0usft (Original Well Elev) KB @ 6744.0usft (Original Well Elev)

Grid

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)
6,900.0		315.00	4,295.3	1,359.9	-1,628.8	2,116.3	0.00	0.00	0.00
7,000.0		315.00	4,295.8	1,430.6	-1,699.5	2,216.3	0.00	0.00	0.00
7,100.0		315.00	4,296.3	1,501.3	-1,770.2	2,316.3	0.00	0.00	0.00
7,100.0		315.00	4,296.8	1,572.0	-1,840.9	2,416.2	0.00	0.00	0.00
		315.00		1,642.8		2,516.2	0.00	0.00	0.00
7,300.0	09.70	313.00	4,297.4	1,042.0	-1,911.6	2,510.2	0.00	0.00	0.00
7,400.0	89.70	315.00	4,297.9	1,713.5	-1,982.3	2,616.2	0.00	0.00	0.00
7,500.0	89.70	315.00	4,298.4	1,784.2	-2,053.0	2,716.2	0.00	0.00	0.00
7,600.0	89.70	315.00	4,298.9	1,854.9	-2,123.7	2,816.2	0.00	0.00	0.00
7,700.0		315.00	4,299.5	1,925.6	-2,194.4	2,916.2	0.00	0.00	0.00
7,800.0		315.00	4,300.0	1,996.3	-2,265.2	3,016.1	0.00	0.00	0.00
7,900.0		315.00	4,300.5	2,067.0	-2,335.9	3,116.1	0.00	0.00	0.00
8,000.0		315.00	4,301.1	2,137.7	-2,406.6	3,216.1	0.00	0.00	0.00
8,100.0		315.00	4,301.6	2,208.4	-2,477.3	3,316.1	0.00	0.00	0.00
8,200.0	89.70	315.00	4,302.1	2,279.1	-2,548.0	3,416.1	0.00	0.00	0.00
8,300.0	89.70	315.00	4,302.6	2,349.9	-2,618.7	3,516.1	0.00	0.00	0.00
8,400.0	89.70	315.00	4,303.2	2,420.6	-2,689.4	3,616.1	0.00	0.00	0.00
							0.00	0.00	0.00
8,500.0		315.00	4,303.7	2,491.3	-2,760.1	3,716.0 3,816.0	0.00	0.00	0.00
8,600.0		315.00	4,304.2	2,562.0	-2,830.8				
8,700.0		315.00	4,304.7	2,632.7	-2,901.5	3,916.0	0.00	0.00	0.00
8,800.0	89.70	315.00	4,305.3	2,703.4	-2,972.2	4,016.0	0.00	0.00	0.00
8,900.0	89.70	315.00	4,305.8	2,774.1	-3,043.0	4,116.0	0.00	0.00	0.00
9,000.0		315.00	4,306.3	2,844.8	-3,113.7	4,216.0	0.00	0.00	0.00
9,100.0		315.00	4,306.9	2,915.5	-3,184.4	4,315.9	0.00	0.00	0.00
9,200.0		315.00	4,307.4	2,986.3	-3,255.1	4,415.9	0.00	0.00	0.00
9,300.0		315.00	4,307.9	3,057.0	-3,325.8	4,515.9	0.00	0.00	0.00
5,500.0	00.70	010.00							
9,400.0	89.70	315.00	4,308.4	3,127.7	-3,396.5	4,615.9	0.00	0.00	0.00
9,500.0	89.70	315.00	4,309.0	3,198.4	-3,467.2	4,715.9	0.00	0.00	0.00
9,600.0	89.70	315.00	4,309.5	3,269.1	-3,537.9	4,815.9	0.00	0.00	0.00
9,700.0	89.70	315.00	4,310.0	3,339.8	-3,608.6	4,915.8	0.00	0.00	0.00
9,800.0	89.70	315.00	4,310.5	3,410.5	-3,679.3	5,015.8	0.00	0.00	0.00
		045.00	4.044.4	0.404.0	2.750.0	E 11 E 9	0.00	0.00	0.00
9,900.0		315.00	4,311.1	3,481.2	-3,750.0	5,115.8	0.00	0.00	0.00
10,000.0		315.00	4,311.6	3,551.9	-3,820.8	5,215.8	0.00	0.00	
10,100.0		315.00	4,312.1	3,622.6	-3,891.5	5,315.8	0.00	0.00	0.00
10,200.0		315.00	4,312.7	3,693.4	-3,962.2	5,415.8	0.00	0.00	0.00
10,300.0	89.70	315.00	4,313.2	3,764.1	-4,032.9	5,515.7	0.00	0.00	0.00
10,400.0	89.70	315.00	4,313.7	3,834.8	-4,103.6	5,615.7	0.00	0.00	0.00
10,500.0		315.00	4,314.2	3,905.5	-4,174.3	5,715.7	0.00	0.00	0.00
10,600.0		315.00	4,314.8	3,976.2	-4,245.0	5,815.7	0.00	0.00	0.00
10,700.0		315.00	4,315.3	4,046.9	-4,315.7	5,915.7	0.00	0.00	0.00
10,700.0		315.00	4,315.8	4,117.6	-4,386.4	6,015.7	0.00	0.00	0.00
10,000.0									
10,900.0	89.70	315.00	4,316.3	4,188.3	-4,457.1	6,115.6	0.00	0.00	0.00
11,000.0	89.70	315.00	4,316.9	4,259.0	-4,527.8	6,215.6	0.00	0.00	0.00
11,100.0	89.70	315.00	4,317.4	4,329.7	-4,598.6	6,315.6	0.00	0.00	0.00
11,200.0		315.00	4,317.9	4,400.5	-4,669.3	6,415.6	0.00	0.00	0.00
11,300.0		315.00	4,318.4	4,471.2	-4,740.0	6,515.6	0.00	0.00	0.00
					4.940.7	6.615.0	0.00	0.00	0.00
11,400.0		315.00	4,319.0	4,541.9	-4,810.7	6,615.6	0.00	0.00	
11,500.0		315.00	4,319.5	4,612.6	-4,881.4	6,715.5	0.00	0.00	0.00
11,600.0		315.00	4,320.0	4,683.3	-4,952.1	6,815.5	0.00	0.00	0.00
11,700.0		315.00	4,320.6	4,754.0	-5,022.8	6,915.5	0.00	0.00	0.00
11,800.0	89.70	315.00	4,321.1	4,824.7	-5,093.5	7,015.5	0.00	0.00	0.00
11,900.0	89.70	315.00	4,321.6	4,895.4	-5,164.2	7,115.5	0.00	0.00	0.00
		315.00	4,321.6	4,966.1	-5,234.9	7,115.5	0.00	0.00	0.00
12,000.0						7,315.4	0.00	0.00	0.00
12,100.0 12,200.0		315.00 315.00	4,322.7 4,323.2	5,036.9 5,107.6	-5,305.6 -5,376.4	7,315.4	0.00	0.00	0.00



Database: Company: EDM

Enduring Resources LLC

Project: San Juan Basin - W Lybrook Unit Site: 720H Pad

 Well:
 756H

 Wellbore:
 Wellbore #1

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well 756H

KB @ 6744.0usft (Original Well Elev) KB @ 6744.0usft (Original Well Elev)

Grid

ned 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)
12,300.0	89.70	315.00	4,323.7	5,178.3	-5,447.1	7,515.4	0.00	0.00	0.00
12,400.0	89.70	315.00	4,324.2	5.249.0	-5,517.8	7,615.4	0.00	0.00	0.00
12,500.0	89.70	315.00	4,324.8	5,319.7	-5,588.5	7,715.4	0.00	0.00	0.00
12,600.0	89.70	315.00	4,325.3	5,390.4	-5,659.2	7,815.4	0.00	0.00	0.00
12,700.0	89.70	315.00	4,325.8	5,461.1	-5,729.9	7,915.3	0.00	0.00	0.00
12,800.0	89.70	315.00	4,326.4	5,531.8	-5,800.6	8,015.3	0.00	0.00	0.00
12,900.0	89.70	315.00	4,326.9	5,602.5	-5,871.3	8,115.3	0.00	0.00	0.00
13,000.0	89.70	315.00	4,327.4	5,673.2	-5,942.0	8,215.3	0.00	0.00	0.00
13,100.0	89.70	315.00	4,327.9	5,744.0	-6,012.7	8,315.3	0.00	0.00	0.00
13,200.0	89.70	315.00	4,328.5	5,814.7	-6,083.4	8,415.3	0.00	0.00	0.00
13,300.0	89.70	315.00	4,329.0	5,885.4	-6,154.2	8,515.2	0.00	0.00	0.00
13,400.0	89.70	315.00	4,329.5	5,956.1	-6,224.9	8,615.2	0.00	0.00	0.00
13,500.0	89.70	315.00	4,330.0	6,026.8	-6,295.6	8,715.2	0.00	0.00	0.00
13,600.0	89.70	315.00	4,330.6	6,097.5	-6,366.3	8,815.2	0.00	0.00	0.00
13,700.0	89.70	315.00	4,331.1	6,168.2	-6,437.0	8,915.2	0.00	0.00	0.00
13,800.0	89.70	315.00	4,331.6	6,238.9	-6,507.7	9,015.2	0.00	0.00	0.00
13,900.0	89.70	315.00	4,332.2	6,309.6	-6,578.4	9,115.2	0.00	0.00	0.00
14,000.0	89.70	315.00	4,332.7	6,380.3	-6,649.1	9,215.1	0.00	0.00	0.00
14,100.0	89.70	315.00	4,333.2	6,451.1	-6,719.8	9,315.1	0.00	0.00	0.00
14,200.0	89.70	315.00	4,333.7	6,521.8	-6,790.5	9,415.1	0.00	0.00	0.00
14,300.0	89.70	315.00	4,334.3	6,592.5	-6,861.2	9,515.1	0.00	0.00	0.00
14,400.0	89.70	315.00	4,334.8	6,663.2	-6,932.0	9,615.1	0.00	0.00	0.00
14,500.0	89.70	315.00	4,335.3	6,733.9	-7,002.7	9,715.1	0.00	0.00	0.00
14,600.0	89.70	315.00	4,335.8	6,804.6	-7,073.4	9,815.0	0.00	0.00	0.00
14,700.0	89.70	315.00	4,336.4	6,875.3	-7,144.1	9,915.0	0.00	0.00	0.00
14,800.0	89.70	315.00	4,336.9	6,946.0	-7,214.8	10,015.0	0.00	0.00	0.00
14,900.0	89.70	315.00	4,337.4	7,016.7	-7,285.5	10,115.0	0.00	0.00	0.00
15,000.0	89.70	315.00	4,337.9	7,087.5	-7,356.2	10,215.0	0.00	0.00	0.00
15,100.0	89.70	315.00	4,338.5	7,158.2	-7,426.9	10,315.0	0.00	0.00	0.00
15,200.0	89.70	315.00	4,339.0	7,228.9	-7,497.6	10,414.9	0.00	0.00	0.00
15,300.0	89.70	315.00	4,339.5	7,299.6	-7,568.3	10,514.9	0.00	0.00	0.00
15,400.0	89.70	315.00	4,340.1	7,370.3	-7,639.0	10,614.9	0.00	0.00	0.00
15,500.0	89.70	315.00	4,340.6	7,441.0	-7,709.8	10,714.9	0.00	0.00	0.00
15,600.0	89.70	315.00	4,341.1	7,511.7	-7,780.5	10,814.9	0.00	0.00	0.00
15,700.0	89.70	315.00	4,341.6	7,582.4	-7,851.2	10,914.9	0.00	0.00	0.00
15,768.6	89.70	315.00	4,342.0	7,630.9	-7,899.6	10,983.4	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
756H KOP - plan hits target ce - Point	0.00 nter	0.00	3,695.0	-584.8	325.0	1,895,997.64	2,746,117.84	36.210689°N	107.755278°W
756H POE - plan hits target ce - Point	0.00 nter	0.00	4,284.0	-150.8	-118.1	1,896,431.65	2,745,674.75	36.211882°N	107.756779°W
756H BHL - plan hits target ce - Point	0.00 nter	0.00	4,342.0	7,630.9	-7,899.6	1,904,213.35	2,737,893.20	36.233273°N	107.783144°W



Database: Company: EDM

Design #1

Enduring Resources LLC San Juan Basin - W Lybrook Unit

 Project:
 San Juan B:

 Site:
 720H Pad

 Well:
 756H

 Wellbore:
 Wellbore #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well 756H

KB @ 6744.0usft (Original Well Elev) KB @ 6744.0usft (Original Well Elev)

Grid

Minimum Curvature

Casing Points

Design:

Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (")	Hole Diameter (")
350.0	350.0	13 3/8"		13-3/8	17-1/2
2,660.5	2,594.0	9 5/8"		9-5/8	12-1/4

ormations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	376.0	376.0	Ojo Alamo		0.00	
	474.0	474.0	Kirtland		0.00	
	680.0	680.0	Fruitland		0.00	
	1,044.0	1,044.0	Pictured Cliffs		0.00	
	1,259.0	1,259.0	Lewis		0.00	
	1,414.1	1,414.0	Chacra		0.00	
	2,539.1	2,482.0	Cliff House		0.00	
	2,552.1	2,494.0	Menefee		0.00	
	3,577.9	3,464.0	Point Lookout		0.00	
	3,833.3	3,719.0	Mancos		0.00	
	4,068.7	3,946.0	Gallup (MNCS_A)		0.00	
	4,183.3	4,044.0	MNCS_B		0.00	
	4,374.2	4,176.0	MNCS_C		0.00	
	4,374.2	4,176.0	MNCS_Cms		0.00	
	4,763.5	4,284.0	MNCS_Cms (TARGET)		0.00	



ENDURING RESOURCES IV, LLC 1050 SEVENTEENTH STREET, SUITE 2500 **DENVER, COLORADO 80265**

Drill, complete, and equip single lateral in the Mancos-Cms formation **DRILLING PLAN:**

WELL INFORMATION:

Name: W LYBROOK UNIT 756H

API Number: 756Y: 30-045-35819, 756H: not yet assigned

AFE Number: not yet assigned ER Well Number: not yet assigned

State: New Mexico

County: San Juan

Surface Elevation: 6,719 ft ASL (GL) 6,744 ft ASL (KB)

2,115 ft FEL Surface Location: 23-23N-09W Sec-Twn-Rng 2,596 ft FSL

36.212296 ° N latitude 107.756378 ° W longitude (NAD 83) 330 ft FNL 619 ft FWL BH Location: 15-23N-09W Sec-Twn-Rng

36.233273 ° N latitude 107.783144 ° W longitude (NAD 83)

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 38.3 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersection, Left (Southeast) remaining on CR #7890 for 0.6 miles to fork, Right (Southwest) on CR #7890 for 0.5 miles to fork, Right (West) exiting CR #7890 for 0.6 miles to fork, Right

(Northwest) for 0.6 mile to W Lybrook Unit 720H Pad

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:

Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O/G/W	Pressure
Ojo Alamo	6,368	376	376	W	normal
Kirtland	6,270	474	474	W	normal
Fruitland	6,064	680	680	G, W	sub
Pictured Cliffs	5,700	1,044	1,044	G, W	sub
Lewis	5,485	1,259	1,259	G, W	normal
Chacra	5,330	1,414	1,414	G, W	normal
Cliff House	4,262	2,482	2,539	G, W	sub
Menefee	4,250	2,494	2,552	G, W	normal
Point Lookout	3,280	3,464	3,578	G, W	normal
Mancos	3,025	3,719	3,833	O,G	sub (~0.38)
Gallup (MNCS_A)	2,798	3,946	4,069	O,G	sub (~0.38)
MNCS_B	2,700	4,044	4,183	O,G	sub (~0.38)
MNCS_C	2,568	4,176	4,374	O,G	sub (~0.38)
MNCS_Cms	2,568	4,176	4,374	O,G	sub (~0.38)
P.O.E. TARGET	2,460	4,284	4,764	O,G	sub (~0.38)
PROJECTED TD	2,402	4,342	15,769	O,G	sub (~0.38)

Surface: Nacimiento

Oil & Gas Zones: Several gas bearing zones will be encountered; target formation is the Gallup

Pressure: Normal (0.43 psi/ft) or sub-normal pressure gradients anticipated in all formations

psi/ft 0.22 Max. pressure gradient: psi/ft Evacuated hole gradient: 0.43 1,870 Maximum anticipated BH pressure, assuming maximum pressure gradient: psi 920 psi Maximum anticipated surface pressure, assuming partially evacuated hole:

Temperature: Maximum anticipated BHT is 125° F or less

H₂S INFORMATION:

H₂S Zones: Encountering hydrogen-sulfide bearing zones is **NOT** anticipated.

Safety: Sensors and alarms will be placed in the substructure, on the rig floor, above the pits, and at the shakers.

LOGGING, CORING, AND TESTING:

Mud Logs: None planned; remote geo-steering from drill out of 9-5/8" casing to TD; gas detection from drillout of 13-3/8"

casing to TD.

MWD / LWD: Gamma Ray from drillout of 13-3/8" casing to TD

Open Hole Logs: None planned Testing: None planned Coring: None planned

Cased Hole Logs: CBL on 5-1/2" casing from deepest free-fall depth to surface

DRILLING RIG INFORMATION:

Contractor: Aztec Rig No.: 1000

Draw Works: E80 AC 1,500 hp

Mast: Hyduke Triple (136 ft, 600,000 lbs, 10 lines)

Top Drive: NOV IDS-350PE (350 ton)

Prime Movers: 4 - GE Jenbacher Natural Gas Generator

Pumps: 2 - RS F-1600 (7,500 psi)

BOPE 1: Cameron single & double gate rams (13-5/8", 3,000 psi)

BOPE 2: Cameron annular (13-5/8", 5,000 psi)

Choke Cameron (4", 10,000 psi)

KB-GL (ft): 25

NOTE: A different rig may be used to drill the well depending on rig availability

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

- 1) Rig will be equipped with upper and lower kelly cocks with handles available.
- 2) Inside BOP and TIW valves will be available to use on all sizes and threads of drill pipe used while drilling the well.
- 2) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.
- BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 13-3/8" and 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.
- 4) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.
- 5) Manual locking devices (hand wheels) shall be intalled on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device. The valve will be maintained in the open position and shall only be closed when the there is no power to the accumulator.

FLUIDS AND SOLIDS CONTROL PROGRAM:

Fluid Measurement:

Pumps shall be equipped with stroke counters with displays in the dog-house. Slow pump speed shall be recorded daily and after mudding up, at a minimum, on the drilling report. A Pit Volume Totalizer will be installed and the readout will be displayed in the dog-house. Gas-detecting equipment will be installed at the shakers, and readouts will be available in the dog-house and the in the geologist's work-station (if geologist or mud-logger is on-site).

Closed-Loop System:

A fully, closed-loop system will be utilized. The system will consist of above-ground piping and above-ground storage tanks and bins. The system will not entail any earthen pits, below-grade storage, or drying pads. All equipment will be disassembled and removed from the site when drilling operations cease. The system will be capable of storing all fluids and generated cuttings and of preventing uncontrolled releases of the same. The system will be operated in an efficient manner to allow the recycling and reuse of as much fluid as possible and to minimimize the amount of fluids and solids that require disposal.

Fluid Disposal: Fluids that cannot be reused, recycled, or returned to the supplier will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

Solids Disposal:

Drilling solids will be stored (until haul-off) on-site in separate containers with no other waste, debris, or garbage products. Waste solids will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

Fluid Program: See "Detailed Drilling Plan" section for specifics.

DETAILED DRILLING PLAN:

SURFACE: Drill vertically to casing setting depth (plus necessary rathole), run casing, cement casing to surface.

-	O ft (MD)	to.	350 ft (MD)	Hole Section Length:	350 ft
	0 ft (MD) 0 ft (TVD)	to	350 ft (TVD)	Casing Required:	350 ft
	O IL (IVD)	10	330 11 (140)	casing itequirea.	555.0

Note: Surface hole may be drilled, cased, and cemented with a smaller rig in advance of the drilling rig.

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	рН	Comments	~
	Fresh Water	8.4	N/C	2 - 8	2 - 12	9.0	Spud mud	

Hole Size: 17-1/2"

Bit / Motor: Mill Tooth or PDC, no motor MWD / Survey: No MWD, deviation survey

Logging: None

Casing Specs:	
Specs	
Loading	

MU Torque (ft lbs):

Min. S.F.

	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
13.375	54.5	J-55	BTC	1,130	2,730	853,000	909,000
				153	565	116,634	116,634
				7.39	4.83	7.31	7.79

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling

N/A

intermediate hole and 8.4 ppg equivalent external pressure gradient Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

N/A Maximum: N/A Optimum: Minumum:

Make-up as per API Buttress Connection running procedure.

Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface

Centralizers: 2 centralizers per jt stop-banded 10' from each collar on bottom 3 jts, 1 centralizer per 2 jts to surface

Cement:	Туре	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	Hole Cap. (cuft/ft)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)
	Class G	15.8	1.174	5.15	0.6946	100%	0	414

Calculated cement volumes assume gauge hole and the excess noted in table

Halliburton HALCEM surface cementing blend

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

INTERMEDIATE: Drill as per directional plan to casing setting depth, run casing, cement casing to surface.

	350 ft (MD)	to	2,661 ft (MD)	Hole Section Length:	2,311 ft
4	350 ft (TVD)	to	2,594 ft (TVD)	Casing Required:	2,661 ft

			FL		YP		
Fluid:	Туре	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	рН	Comments
	LSND (KCI)	8.8 - 9.5	20	8 - 14	8 - 14	9.0 - 9.5	

Hole Size: 12-1/4"

Bit / Motor: PDC w/mud motor

MWD / Survey: MWD Survey with inclination and azimuth survey (every 100' at a minimum), GR optional

Logging: None

Pressure Test: NU BOPE and test (as noted above); pressure test 13-3/8" casing to 1,500 psi for 30 minutes.

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	9.625	36.0	J-55	LTC	2,020	3,520	564,000	453,000
Loading					1,133	1,068	183,539	183,539
Min. S.F.					1.78	3.29	3.07	2.47

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling production

Maximum:

hole and 8.4 ppg equivalent external pressure gradient

Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): Minumum: 3,400 Optimum: 4,530 Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface

Centralizers: 2 centralizers per jt stop-banded 10' from each collar on bottom 3 jts, 1 centralizer per 2 jts to surface

Cement:	Туре	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)
Lead	G:POZ Blend	12.3	1.987	10.16	70%	0	594
Tail	Class G	15.8	1.148	4.98	20%	2,161	164

Annular Capacity

0.3627 cuft/ft 9-5/8" casing x 13-3/8" casing annulus
0.3132 cuft/ft 9-5/8" casing x 12-1/4" hole annulus

Calculated cement volumes assume gauge hole and the excess noted in table

Halliburton ECONOCEM & HALCEM cementing blend

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

PRODUCTION: Drill to TD following directional plan, run casing, cement casing to surface.

OF.	2,661 ft (MD)	to	15,769 ft (MD)	Hole Section Length:	13,108 ft
	2,594 ft (TVD)	to	4,342 ft (TVD)	Casing Required:	15,769 ft

Estimated KOP:	3,809	ft (MD)	3,695	ft (TVD)
Estimated Landing Point (P.O.E.):	4,764	ft (MD)	4,284	ft (TVD)
Estimated Lateral Length:	11,005	ft (MD)		

Fluid:	Туре	MW (ppg)	FL (mL/30')	PV (cp)	YP (lb/100 sqft)	рН	Comments
10.76	LSND (FW)	8.8 - 9.5	20	8 - 14	8 - 14	9.0 - 9.5	OBM as contingency

Hole Size: 8-1/2"

Bit / Motor: PDC w/mud motor

MWD / Survey: MWD with GR, inclination, and azimuth (survey every joint from KOP to Landing Point and survey every 100'

minimum before KOP and after Landing Point)

Logging: GR MWD for entire section, no mud-log or cuttings sampling, no OH WL logs

Pressure Test: NU BOPE and test (as noted above); pressure test 9-5/8" casing to 1,500 psi for 30 minutes.

Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	5.500	17.0	P-110	LTC	7,460	10,640	546,000	445,000
Loading					2,145	8,906	331,323	331,323
Min. S.F.					3.48	1.19	1.65	1.34

Assumptions: Collapse: fully evacuated casing with 9.5 ppg fluid in the annulus (floating casing during running)

Burst: 8,500 psi maximum surface treating pressure with 10.2 ppg equivalent mud weight sand laden

fluid with 8.4 ppg equivalent external pressure gradient

Tension: buoyed weight in 9.0 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): 3,470 Optimum: 4,620 Maximum: 5,780 Minumum:

Casing Summary: Float shoe, 1 jt casing, float collar, 1 jt casing, float collar, 1 jt casing, toe-intitiation sleeve, 20' marker joint, toe-

initiation sleeve, casing to KOP with 20' marker joints spaced evenly in lateral every 2,000', floatation sub, casing to

surface. The toe-initiation sleeves must be positioned INSIDE the 330' unit setback.

Centralizers: Centralizer count and placement may be adjusted based on well conditions and as-drilled surveys.

Lateral: 1 centralizer per joint

Curve: 1 centralizer per joint from landing point to KOP

KOP to surf: 1 centralizer per 2 joints

Cement:	Туре	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)
Lead	G:POZ blend	12.4	1.907	9.981	50%	0	817
Tail	G:POZ blend	13.3	1.360	5.999	10%	4,069	2,168

Annular Capacity

0.2691 cuft/ft 5-1/2" casing x 9-5/8" casing annulus

0.2291 cuft/ft 5-1/2" casing x 8-1/2" hole annulus

Calculated cement volumes assume gauge hole and the excess noted in table

Halliburton ECONOCEM & EXTENDACEM cementing blend

Notify NMOCD & BLM if cement is not circulated to surface.

Note: The lateral may be drilled outside the applicaple unit setback to maximize the length of the completed interval and to maximize resource recovery. If the well is drilled outside the setback, the toe initiation sleeve(s) and all perforations will be placed inside the setback. An unorthodox location application is not required because the completed interval will be entirely within the setback as defined and allowed by NMAC 19.15.16.7B(1), NMAC 19.15.16.14B(2), NMAC 19.15.16.15B(2). W Lybrook Unit Order Number is R-14051.

FINISH WELL: ND BOP, cap well, RDMO.

COMPLETION AND PRODUCTION PLAN:

Frac: 60 plug-and-perf stages with 360,000 bbls slickwater fluid and 17,000,000 lbs of proppant (estimated)

Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assitance)

Production: Produce through production tubing via gas-lift into permanent production and storage facilities

ESTIMATED START DATES:

Drilling: TBD Completion: TBD Production: TBD

Prepared by:

Alec Bridge

2/17/2020

MD (ft KB)

376

474

680

1.044

1,259

1,414

2,539

2,552

3,578 3,833

4.069

4,183

4,374

4,374

4,764

15 769

TVD (ft KB)

474

1 044

3.946

4.176

WELL NAME: W LYBROOK UNIT 756H

OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-Cms formation

API Number: 756Y: 30-045-35819, 756H: not yet assigned

AFE Number: not yet assigned ER Well Number: not yet assigned

State: New Mexico County: San Juan

Surface Elev.: 6,719

ft ASL (GL) 6,744 ft ASL (KB) 2,596 ft FSL

Surface Location: 23-23N-09W Sec-Twn- Rng BH Location: 15-23N-09W Sec-Twn- Rng

330 ft FNL 2,115 ft FEL 619 ft FWL

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 38.3 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersection, Left (Southeast) remaining on CR #7890 for 0.6 miles to fork, Right (Southwest) on CR #7890 for 0.5 miles to fork, Right

(West) exiting CR #7890 for 0.6 miles to fork, Right (Northwest) for 0.6 mile to W Lybrook Unit 720H Pad

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	2,661	9.625	36.0	J-55	LTC	0	2,661
Production	8.500	15,769	5.500	17.0	P-110	LTC	0	15,769

CEMENT PROPERTIES SUMMARY:

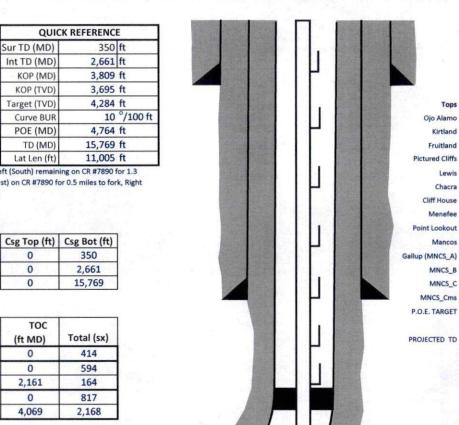
	Туре	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	Class G	15.8	1.174	5.15	0.6946	100%	0	414
Inter. (Lead)	G:POZ Blend	12.3	1.987	10.16	0.3627	70%	0	594
Inter. (Tail)	Class G	15.8	1.148	4.98	0.3132	20%	2,161	164
Prod. (Lead)	G:POZ blend	12.4	1.907	9.981	0.2691	50%	0	817
Prod. (Tail)	G:POZ blend	13.3	1.360	5.999	0.2291	10%	4,069	2,168

COMPLETION / PRODUCTION SUMMARY:

Frac: 60 plug-and-perf stages with 360,000 bbls slickwater fluid and 17,000,000 lbs of proppant (estimated)

Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assitance)

Production: Produce through production tubing via gas-lift into permanent production and storage facilities



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

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**

COMMENTS

Action 24989

COMMENTS

-	Operator:	OGRID:
	ENDURING RESOURCES, LLC	372286
	1050 17TH STREET, SUITE 2500	Action Number:
	DENVER, CO 80265	24989
		Action Type:
		[C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 4/22/2021	4/23/2021

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

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**

CONDITIONS

Action 24989

CONDITIONS

Operator:	OGRID:		
ENDURING RESOURCES, LLC	372286		
1050 17TH STREET, SUITE 2500	Action Number:		
DENVER, CO 80265	24989		
	Action Type:		
	[C-103] NOI Change of Plans (C-103A)		

CONDITIONS

Created By	Condition	Condition Date
ahvermersch	None	6/23/2021