

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Farmington Field Office
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.

5. Lease Serial No.

NOG13121863

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Enduring Resources IV, LLC

3a. Address

200 Energy Court Farmington NM 87401

3b. Phone No. (include area code)

505-636-9743

7. If Unit of CA/Agreement, Name and/or No.

NMNM-135216A

8. Well Name and No.

W LYBROOK UNIT #758H

9. API Well No.

30-045-35810

10. Field and Pool or Exploratory Area

Lybrook Mancos W

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL: 2633' FSL & 2101' FEL Sec 23 T23N R9W

BHL: 330' FNL & 1499' FWL Sec 15 T23N R9W

11. Country or Parish, State

San Juan, NM

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

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Hydraulic Fracturing

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

TYPE OF ACTION

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut Off

☐ Well Integrity

☒ Other **Change in Plans**

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 must 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 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.)

Enduring Resources requests a change to the drilling program per attached updated:

C102

OPS plan

Directional plan

Wellbore

ADHERE TO PREVIOUS NMOC
CONDITIONS OF APPROVAL

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

Note: WPX pre-set the 9-5/8" surface casing on this well.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Lacey Granillo

Title: Permit Specialist

Signature

Date: 12/3/18

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title DE

Date 2/7/19

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 FFO

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.

NMOCDFV

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

District III
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 LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35810	² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 321259	⁵ Property Name W LYBROOK UNIT	⁶ Well Number 758H
⁷ OGARD No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6719'

¹⁰ Surface Location

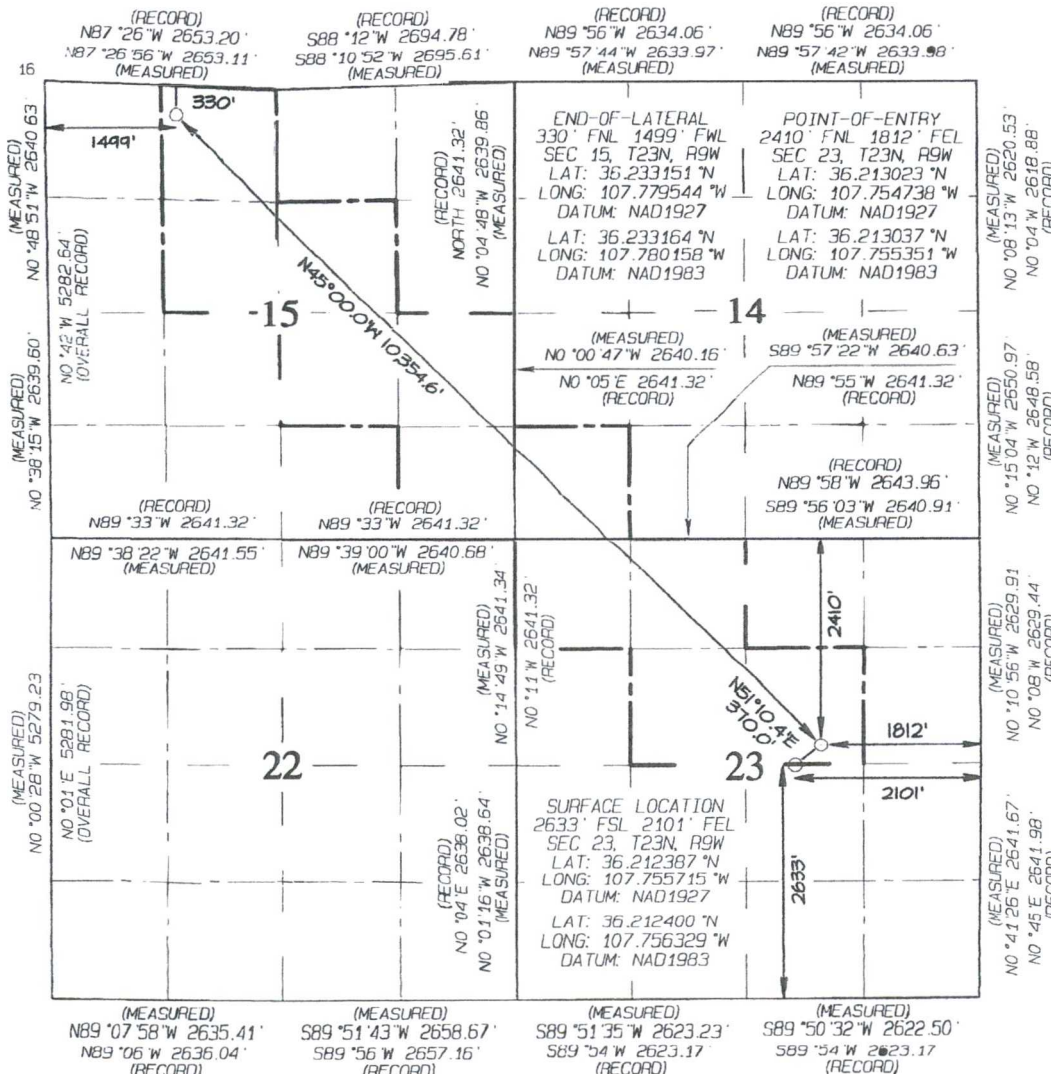
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	23	23N	9W		2633	SOUTH	2101	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	15	23N	9W		330	NORTH	1499'	WEST	SAN JUAN

¹² Dedicated Acres 440.00	SW/4 SW/4 - Section 14 E/2 NW/4, SW/4 NE/4 N/2 SE/4, SE/4 SE/4 - Section 15 N/2 NW/4, SE/4 NW/4 SW/4 NE/4 - Section 23	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14051 - 12,807.24 Acres
---	--	-------------------------------	----------------------------------	--

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



¹⁷ OPERATOR CERTIFICATION

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

Signature: *[Signature]* Date: 12/3/18
Lacey Granillo
Printed Name: lgranillo@enduringresources.com
E-mail Address:

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: NOVEMBER 20, 2018
Survey Date: OCTOBER 19, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



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

DRILLING PLAN: *Drill single lateral in the Mancos-I formation*

WELL INFORMATION:

Name: W LYBROOK UNIT 758H

API Number: 30-045-35810

State: New Mexico

County: San Juan

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

Surface Location: 23-23N-9W Sec-Twn-Rng 2,633 ft FSL 2,101 ft FEL

36.2124 ° N latitude 107.756329 ° W longitude (NAD 83)

BH Location: 15-23N-9W Sec-Twn-Rng 330 ft FNL 1,499 ft FWL

36.233164 ° N latitude 107.780158 ° W longitude (NAD 83)

Driving Directions: From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM: South on 550 for 37.8 miles to MM 113.4, Right (SW) on CR 7890 for 0.8 miles to fork, Left (S) on CR 7890 for 1.3 miles to four-way intersection, Left (SE) on CR 7890 for 0.6 miles, Right (SW) on CR 7890 for 0.5 miles, Right on access road for 1.2 miles to location.

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	2,509	G, W	sub
	Menefee	4,250	2,494	2,521	G, W	normal
	Point Lookout	3,280	3,464	3,532	G, W	normal
	Mancos	3,015	3,729	3,808	O,G	normal
	Gallup (MNCS. A)	2,790	3,954	4,042	O,G	sub (~0.38)
	MNCS_I TARGET	2,047	4,697	5,182	O,G	sub (~0.38)
	PROJECTED WELL TD	2,007	4,737	15,537	O,G	sub (~0.38)

Surface: Nacimiento

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

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

Max. pressure gradient: 0.43 psi/ft Evacuated hole gradient: 0.22 psi/ft

Maximum anticipated BH pressure, assuming maximum pressure gradient: 2,040 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 1,010 psi

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 chromatograph from drillout of 9-5/8" casing to TD.

MWD / LWD: Gamma Ray from drillout of 9-5/8" 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 double gate ram (11", 3,000 psi)

BOPE 2: Cameron annular (11", 5,000 psi)

Choke Cameron (4", 10,000 psi)

KB-GL (ft): 25

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.
- 3) 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 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 installed 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 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 minimize 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:

NOTE: WPX previously drilled cased, and cemented the surface hole.

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

0 ft (MD)	to	340 ft (MD)	Hole Section Length:	340 ft
0 ft (TVD)	to	340 ft (TVD)	Casing Required:	340 ft

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

Hole Size: 12-1/4"

Bit / Motor: Mill Tooth or PDC, no motor

MWD / Survey: No MWD, run deviation survey after drilling

Logging: None

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					149	1,519	110,674	110,674
Min. S.F.					13.60	2.32	5.10	4.09

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 intermediate 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): Minimum: N/A Optimum: N/A Maximum: N/A

Make-up as per API Buttress Connection running procedure.

Casing Details: 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:	Type	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	402

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.

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

340 ft (MD)	to	15,537 ft (MD)	Hole Section Length:	15,197 ft
340 ft (TVD)	to	4,737 ft (TVD)	Casing Required:	15,537 ft

Estimated KOP:	4,035	ft (MD)	3,947	ft (TVD)
Estimated Landing Point (P.O.E.):	5,182	ft (MD)	4,697	ft (TVD)
Estimated Lateral Length:	10,355	ft (MD)		

Fluid:	Type	MW (ppg)	FL (mL/30')	PV (cp)	YP (lb/100 sqft)	pH	Comments
	LSND	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					2,340	8,943	328,724	328,724
Min. S.F.					3.19	1.19	1.66	1.35

Assumptions: Collapse: fully evacuated casing with 9.5 ppg fluid in the annulus (during casing running operations)
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 8.8 ppg fluid with 100,000 lbs over-pull

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

Casing Details: Float shoe, float collar, 2 jts casing, float collar, 1 jt casing, toe-initiation sleeve, 1 - 20' marker joint, toe-initiation sleeve, casing to KOP with 20' marker joints spaced evenly in lateral every 2,000'. Place Floatation Sub at KOP (+/-). Continue running casing to surface. **The toe-initiation sleeves must be positioned INSIDE any unit setbacks.**

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

Lateral: estimated 1 centralizer per joint

Curve: estimated 1 centralizer per joint from landing point to KOP

Vertical: estimated 1 centralizer per 2 joints from KOP to 9-5/8" shoe, 1 per 3 joints from 9-5/8" shoe to surface

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	Hole Cap. (cuft/ft)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)
Lead	G:POZ blend	12.3	1.987	10.16	0.2691	40%	0	647
Tail	G:POZ blend	13.3	1.354	5.94	0.2291	10%	3,947	2,157

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 past applicable setback to maximize the length of the completed interval and to maximize resource recovery. If the well is drilled past the setback, the toe Initiation sleeve 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 Order No. is R-14051.

FINISH WELL: ND BOP, NU WH, RDMO.

COMPLETION AND PRODUCTION PLAN:

Frac: Lateral will be fracture-stimulated in approximately 60 plug-and-perf stages with approximately 250,000 bbls slickwater fluid and 20,000,000 lbs of proppant.

Flowback: Depending on well pressures, flow back may be either up 5-1/2" casing or 2-7/8" production tubing. Well will be flowed back until the well can be produced through permanent production facilities. An ESP may be installed temporarily to assist in load water recovery.

Production: Well will produce up production tubing via gas-lift into permanent production and storage facilities.

ESTIMATED START DATES:

Drilling: 4/1/2019
Completion: 6/1/2019
Production: 7/15/2019

Prepared by: Alec Bridge 11/28/2018

WELL NAME: W LYBROOK UNIT 758H**OBJECTIVE:** Drill single lateral in the Mancos-I formation**API Number:** 30-045-35810**State:** New Mexico**County:** San Juan**Surface Elev.:** 6,719 ft ASL (GL) 6,744 ft ASL (KB)**Surface Location:** 23-23N-9W Sec-Twn- Rng 2,633 ft FSL 2,101 ft FEL**BH Location:** 15-23N-9W Sec-Twn- Rng 330 ft FNL 1499 ft FWL

Driving Directions: From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM: South on 550 for 37.8 miles to MM 113.4, Right (SW) on CR 7890 for 0.8 miles to fork, Left (S) on CR 7890 for 1.3 miles to four-way intersection, Left (SE) on CR 7890 for 0.6 miles, Right (SW) on CR 7890 for 0.5 miles, Right on access road for 1.2 miles to location.

QUICK REFERENCE

Sur TD (MD)	340 ft
KOP (MD)	4,035 ft
KOP (TVD)	3,947 ft
Target (TVD)	4,697 ft
Curve BUR	10 °/100 ft
POE (MD)	5,182 ft
TD (MD)	15,537 ft
Lat Len (ft)	10,355 ft

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	12.250	340	9.625	36.0	J-55	LTC	0	340
Production	8.500	15,537	5.500	17.0	P-110	LTC	0	15,537

CEMENT PROPERTIES SUMMARY:

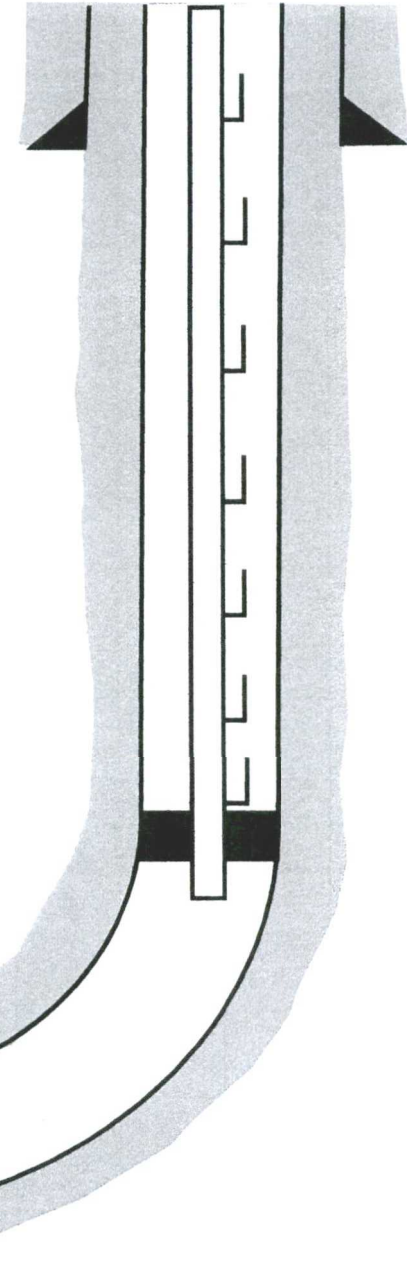
	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	Class G	15.8	1.174	5.15	0.6946	100%	0	402
Prod. (Lead)	G:POZ blend	12.3	1.987	10.16	0.2691	40%	0	647
Prod. (Tail)	G:POZ blend	13.3	1.354	5.94	0.2291	10%	3,947	2,157

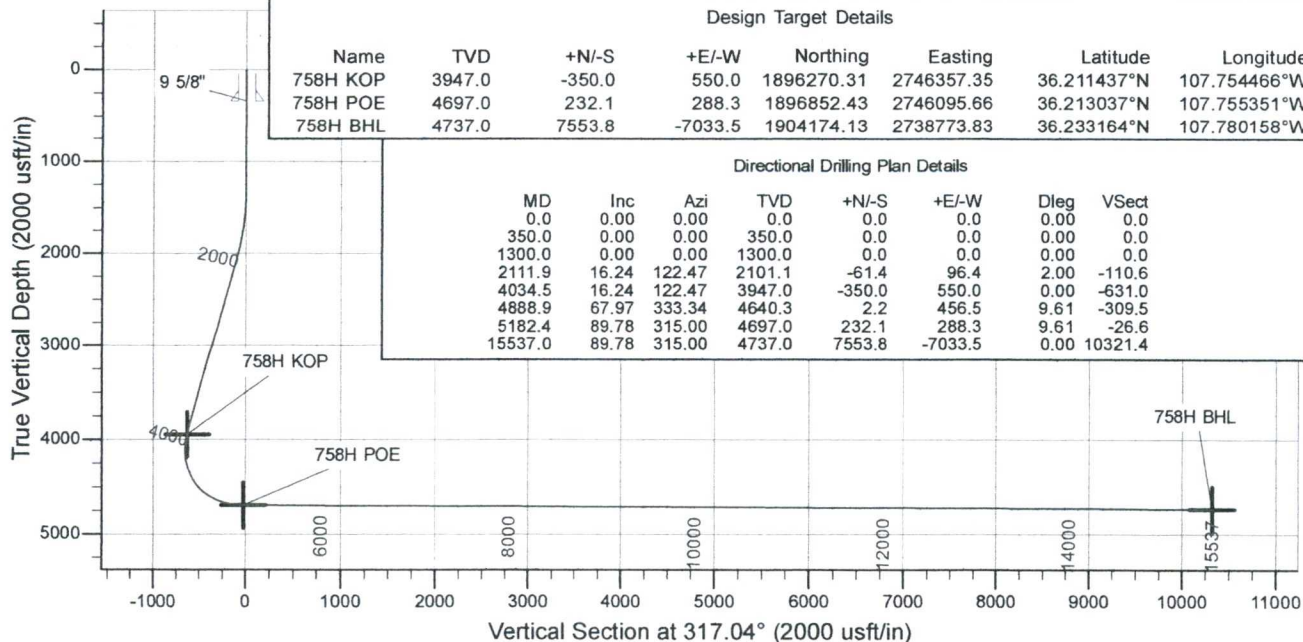
COMPLETION / PRODUCTION SUMMARY:

Frac: 60-stage (+/-) plug-and-perf frac with slick water and 20,000,000 lbs (+/-) proppant

Flowback: Flow up 5-1/2" casing or 2-7/8" tubing until returns are free of sand (ESP may be required to assist in flowback)

Production: 2-7/8" tubing with packer set in 5-1/2" casing and gas-lift mandrels as needed







Enduring Resources LLC

San Juan Basin - W Lybrook Unit

720H Pad

758H

Wellbore #1

Plan: Design #1

Standard Planning Report

28 November, 2018



Planning Report

Database: EDM
Company: Enduring Resources LLC
Project: San Juan Basin - W Lybrook Unit
Site: 720H Pad
Well: 758H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well 758H
TVD Reference: KB @ 6744.0usft (Original Well Elev)
MD Reference: KB @ 6744.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	San Juan Basin - W Lybrook Unit, San Juan County, New Mexico		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	720H Pad, San Juan County, New Mexico		
Site Position:		Northing:	1,896,573.75 usft
From:	Lat/Long	Easting:	2,745,845.14 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	36.212272°N
		Longitude:	107.756201°W
		Grid Convergence:	0.05 °

Well	758H		
Well Position	+N/-S	46.6 usft	Northing:
	+E/-W	-37.8 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			6,719.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	12/31/2009	9.99
			Dip Angle
			63.06
			Field Strength
			50,603.95295376

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			317.04

Plan Survey Tool Program	Date	11/28/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	15,537.0 Design #1 (Wellbore #1)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
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	
2,111.9	16.24	122.47	2,101.1	-61.4	96.4	2.00	2.00	0.00	122.47	
4,034.5	16.24	122.47	3,947.0	-350.0	550.0	0.00	0.00	0.00	0.00	758H KOP
4,888.9	67.97	333.34	4,640.3	2.2	456.5	9.61	6.05	-17.45	-151.31	
5,182.4	89.78	315.00	4,697.0	232.1	288.3	9.61	7.43	-6.25	-41.75	758H POE
15,537.0	89.78	315.00	4,737.0	7,553.8	-7,033.5	0.00	0.00	0.00	0.00	758H BHL



Planning Report

Database: EDM
 Company: Enduring Resources LLC
 Project: San Juan Basin - W Lybrook Unit
 Site: 720H Pad
 Well: 758H
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well 758H
 TVD Reference: KB @ 6744.0usft (Original Well Elev)
 MD Reference: KB @ 6744.0usft (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)
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
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
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
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
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
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
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	2.00	122.47	1,400.0	-0.9	1.5	-1.7	2.00	2.00	0.00
1,500.0	4.00	122.47	1,499.8	-3.7	5.9	-6.8	2.00	2.00	0.00
1,600.0	6.00	122.47	1,599.5	-8.4	13.2	-15.2	2.00	2.00	0.00
1,700.0	8.00	122.47	1,698.7	-15.0	23.5	-27.0	2.00	2.00	0.00
1,800.0	10.00	122.47	1,797.5	-23.4	36.7	-42.1	2.00	2.00	0.00
1,900.0	12.00	122.47	1,895.6	-33.6	52.8	-60.6	2.00	2.00	0.00
2,000.0	14.00	122.47	1,993.1	-45.7	71.8	-82.4	2.00	2.00	0.00
2,100.0	16.00	122.47	2,089.6	-59.6	93.6	-107.4	2.00	2.00	0.00
2,111.9	16.24	122.47	2,101.1	-61.4	96.4	-110.6	2.00	2.00	0.00
2,200.0	16.24	122.47	2,185.7	-74.6	117.2	-134.4	0.00	0.00	0.00
2,300.0	16.24	122.47	2,281.7	-89.6	140.8	-161.5	0.00	0.00	0.00
2,400.0	16.24	122.47	2,377.7	-104.6	164.4	-188.6	0.00	0.00	0.00
2,500.0	16.24	122.47	2,473.7	-119.6	188.0	-215.6	0.00	0.00	0.00
2,600.0	16.24	122.47	2,569.7	-134.6	211.6	-242.7	0.00	0.00	0.00
2,700.0	16.24	122.47	2,665.7	-149.6	235.2	-269.8	0.00	0.00	0.00
2,800.0	16.24	122.47	2,761.7	-164.7	258.8	-296.8	0.00	0.00	0.00
2,900.0	16.24	122.47	2,857.7	-179.7	282.3	-323.9	0.00	0.00	0.00
3,000.0	16.24	122.47	2,953.7	-194.7	305.9	-351.0	0.00	0.00	0.00
3,100.0	16.24	122.47	3,049.8	-209.7	329.5	-378.0	0.00	0.00	0.00
3,200.0	16.24	122.47	3,145.8	-224.7	353.1	-405.1	0.00	0.00	0.00
3,300.0	16.24	122.47	3,241.8	-239.7	376.7	-432.2	0.00	0.00	0.00
3,400.0	16.24	122.47	3,337.8	-254.7	400.3	-459.2	0.00	0.00	0.00
3,500.0	16.24	122.47	3,433.8	-269.8	423.9	-486.3	0.00	0.00	0.00
3,600.0	16.24	122.47	3,529.8	-284.8	447.5	-513.3	0.00	0.00	0.00
3,700.0	16.24	122.47	3,625.8	-299.8	471.1	-540.4	0.00	0.00	0.00
3,800.0	16.24	122.47	3,721.8	-314.8	494.7	-567.5	0.00	0.00	0.00
3,900.0	16.24	122.47	3,817.8	-329.8	518.3	-594.5	0.00	0.00	0.00
4,000.0	16.24	122.47	3,913.9	-344.8	541.9	-621.6	0.00	0.00	0.00
4,034.5	16.24	122.47	3,947.0	-350.0	550.0	-631.0	0.00	0.00	0.00
4,100.0	11.13	106.65	4,010.6	-356.7	563.8	-645.3	9.61	-7.81	-24.16
4,200.0	7.87	48.68	4,109.4	-355.0	578.2	-653.8	9.61	-3.25	-57.97
4,300.0	13.55	4.40	4,207.8	-338.7	584.3	-646.1	9.61	5.68	-44.28
4,400.0	22.11	349.68	4,303.0	-308.5	581.8	-622.2	9.61	8.56	-14.72
4,500.0	31.26	343.09	4,392.2	-265.0	570.8	-583.0	9.61	9.15	-6.59
4,600.0	40.61	339.28	4,473.1	-209.6	551.7	-529.4	9.61	9.35	-3.80
4,700.0	50.05	336.71	4,543.3	-143.8	525.0	-463.0	9.61	9.43	-2.57
4,800.0	59.52	334.77	4,600.9	-69.5	491.4	-385.7	9.61	9.48	-1.94
4,888.9	67.97	333.34	4,640.3	2.2	456.5	-309.5	9.61	9.50	-1.61
4,900.0	68.77	332.58	4,644.3	11.3	451.8	-299.6	9.61	7.18	-6.86



Planning Report

Database: EDM
 Company: Enduring Resources LLC
 Project: San Juan Basin - W Lybrook Unit
 Site: 720H Pad
 Well: 758H
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well 758H
 TVD Reference: KB @ 6744.0usft (Original Well Elev)
 MD Reference: KB @ 6744.0usft (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)
5,000.0	76.08	326.04	4,674.5	93.1	403.1	-206.5	9.61	7.32	-6.54
5,100.0	83.56	319.91	4,692.2	171.6	343.9	-108.8	9.61	7.48	-6.13
5,182.4	89.78	315.00	4,697.0	232.1	288.3	-26.6	9.61	7.55	-5.96
5,200.0	89.78	315.00	4,697.1	244.6	275.8	-9.0	0.00	0.00	0.00
5,300.0	89.78	315.00	4,697.5	315.3	205.1	91.0	0.00	0.00	0.00
5,400.0	89.78	315.00	4,697.8	386.0	134.4	190.9	0.00	0.00	0.00
5,500.0	89.78	315.00	4,698.2	456.7	63.7	290.8	0.00	0.00	0.00
5,600.0	89.78	315.00	4,698.6	527.4	-7.0	390.8	0.00	0.00	0.00
5,700.0	89.78	315.00	4,699.0	598.1	-77.7	490.7	0.00	0.00	0.00
5,800.0	89.78	315.00	4,699.4	668.8	-148.4	590.6	0.00	0.00	0.00
5,900.0	89.78	315.00	4,699.8	739.6	-219.1	690.6	0.00	0.00	0.00
6,000.0	89.78	315.00	4,700.2	810.3	-289.8	790.5	0.00	0.00	0.00
6,100.0	89.78	315.00	4,700.5	881.0	-360.6	890.4	0.00	0.00	0.00
6,200.0	89.78	315.00	4,700.9	951.7	-431.3	990.4	0.00	0.00	0.00
6,300.0	89.78	315.00	4,701.3	1,022.4	-502.0	1,090.3	0.00	0.00	0.00
6,400.0	89.78	315.00	4,701.7	1,093.1	-572.7	1,190.3	0.00	0.00	0.00
6,500.0	89.78	315.00	4,702.1	1,163.8	-643.4	1,290.2	0.00	0.00	0.00
6,600.0	89.78	315.00	4,702.5	1,234.5	-714.1	1,390.1	0.00	0.00	0.00
6,700.0	89.78	315.00	4,702.9	1,305.2	-784.8	1,490.1	0.00	0.00	0.00
6,800.0	89.78	315.00	4,703.2	1,375.9	-855.5	1,590.0	0.00	0.00	0.00
6,900.0	89.78	315.00	4,703.6	1,446.6	-926.2	1,689.9	0.00	0.00	0.00
7,000.0	89.78	315.00	4,704.0	1,517.4	-996.9	1,789.9	0.00	0.00	0.00
7,100.0	89.78	315.00	4,704.4	1,588.1	-1,067.7	1,889.8	0.00	0.00	0.00
7,200.0	89.78	315.00	4,704.8	1,658.8	-1,138.4	1,989.7	0.00	0.00	0.00
7,300.0	89.78	315.00	4,705.2	1,729.5	-1,209.1	2,089.7	0.00	0.00	0.00
7,400.0	89.78	315.00	4,705.6	1,800.2	-1,279.8	2,189.6	0.00	0.00	0.00
7,500.0	89.78	315.00	4,706.0	1,870.9	-1,350.5	2,289.5	0.00	0.00	0.00
7,600.0	89.78	315.00	4,706.3	1,941.6	-1,421.2	2,389.5	0.00	0.00	0.00
7,700.0	89.78	315.00	4,706.7	2,012.3	-1,491.9	2,489.4	0.00	0.00	0.00
7,800.0	89.78	315.00	4,707.1	2,083.0	-1,562.6	2,589.4	0.00	0.00	0.00
7,900.0	89.78	315.00	4,707.5	2,153.7	-1,633.3	2,689.3	0.00	0.00	0.00
8,000.0	89.78	315.00	4,707.9	2,224.5	-1,704.1	2,789.2	0.00	0.00	0.00
8,100.0	89.78	315.00	4,708.3	2,295.2	-1,774.8	2,889.2	0.00	0.00	0.00
8,200.0	89.78	315.00	4,708.7	2,365.9	-1,845.5	2,989.1	0.00	0.00	0.00
8,300.0	89.78	315.00	4,709.0	2,436.6	-1,916.2	3,089.0	0.00	0.00	0.00
8,400.0	89.78	315.00	4,709.4	2,507.3	-1,986.9	3,189.0	0.00	0.00	0.00
8,500.0	89.78	315.00	4,709.8	2,578.0	-2,057.6	3,288.9	0.00	0.00	0.00
8,600.0	89.78	315.00	4,710.2	2,648.7	-2,128.3	3,388.8	0.00	0.00	0.00
8,700.0	89.78	315.00	4,710.6	2,719.4	-2,199.0	3,488.8	0.00	0.00	0.00
8,800.0	89.78	315.00	4,711.0	2,790.1	-2,269.7	3,588.7	0.00	0.00	0.00
8,900.0	89.78	315.00	4,711.4	2,860.8	-2,340.5	3,688.6	0.00	0.00	0.00
9,000.0	89.78	315.00	4,711.7	2,931.5	-2,411.2	3,788.6	0.00	0.00	0.00
9,100.0	89.78	315.00	4,712.1	3,002.3	-2,481.9	3,888.5	0.00	0.00	0.00
9,200.0	89.78	315.00	4,712.5	3,073.0	-2,552.6	3,988.5	0.00	0.00	0.00
9,300.0	89.78	315.00	4,712.9	3,143.7	-2,623.3	4,088.4	0.00	0.00	0.00
9,400.0	89.78	315.00	4,713.3	3,214.4	-2,694.0	4,188.3	0.00	0.00	0.00
9,500.0	89.78	315.00	4,713.7	3,285.1	-2,764.7	4,288.3	0.00	0.00	0.00
9,600.0	89.78	315.00	4,714.1	3,355.8	-2,835.4	4,388.2	0.00	0.00	0.00
9,700.0	89.78	315.00	4,714.5	3,426.5	-2,906.1	4,488.1	0.00	0.00	0.00
9,800.0	89.78	315.00	4,714.8	3,497.2	-2,976.9	4,588.1	0.00	0.00	0.00
9,900.0	89.78	315.00	4,715.2	3,567.9	-3,047.6	4,688.0	0.00	0.00	0.00
10,000.0	89.78	315.00	4,715.6	3,638.6	-3,118.3	4,787.9	0.00	0.00	0.00
10,100.0	89.78	315.00	4,716.0	3,709.4	-3,189.0	4,887.9	0.00	0.00	0.00
10,200.0	89.78	315.00	4,716.4	3,780.1	-3,259.7	4,987.8	0.00	0.00	0.00



Planning Report

Database: EDM
 Company: Enduring Resources LLC
 Project: San Juan Basin - W Lybrook Unit
 Site: 720H Pad
 Well: 758H
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well 758H
 TVD Reference: KB @ 6744.0usft (Original Well Elev)
 MD Reference: KB @ 6744.0usft (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)
10,300.0	89.78	315.00	4,716.8	3,850.8	-3,330.4	5,087.7	0.00	0.00	0.00
10,400.0	89.78	315.00	4,717.2	3,921.5	-3,401.1	5,187.7	0.00	0.00	0.00
10,500.0	89.78	315.00	4,717.5	3,992.2	-3,471.8	5,287.6	0.00	0.00	0.00
10,600.0	89.78	315.00	4,717.9	4,062.9	-3,542.5	5,387.6	0.00	0.00	0.00
10,700.0	89.78	315.00	4,718.3	4,133.6	-3,613.2	5,487.5	0.00	0.00	0.00
10,800.0	89.78	315.00	4,718.7	4,204.3	-3,684.0	5,587.4	0.00	0.00	0.00
10,900.0	89.78	315.00	4,719.1	4,275.0	-3,754.7	5,687.4	0.00	0.00	0.00
11,000.0	89.78	315.00	4,719.5	4,345.7	-3,825.4	5,787.3	0.00	0.00	0.00
11,100.0	89.78	315.00	4,719.9	4,416.4	-3,896.1	5,887.2	0.00	0.00	0.00
11,200.0	89.78	315.00	4,720.2	4,487.2	-3,966.8	5,987.2	0.00	0.00	0.00
11,300.0	89.78	315.00	4,720.6	4,557.9	-4,037.5	6,087.1	0.00	0.00	0.00
11,400.0	89.78	315.00	4,721.0	4,628.6	-4,108.2	6,187.0	0.00	0.00	0.00
11,500.0	89.78	315.00	4,721.4	4,699.3	-4,178.9	6,287.0	0.00	0.00	0.00
11,600.0	89.78	315.00	4,721.8	4,770.0	-4,249.6	6,386.9	0.00	0.00	0.00
11,700.0	89.78	315.00	4,722.2	4,840.7	-4,320.4	6,486.8	0.00	0.00	0.00
11,800.0	89.78	315.00	4,722.6	4,911.4	-4,391.1	6,586.8	0.00	0.00	0.00
11,900.0	89.78	315.00	4,723.0	4,982.1	-4,461.8	6,686.7	0.00	0.00	0.00
12,000.0	89.78	315.00	4,723.3	5,052.8	-4,532.5	6,786.7	0.00	0.00	0.00
12,100.0	89.78	315.00	4,723.7	5,123.5	-4,603.2	6,886.6	0.00	0.00	0.00
12,200.0	89.78	315.00	4,724.1	5,194.3	-4,673.9	6,986.5	0.00	0.00	0.00
12,300.0	89.78	315.00	4,724.5	5,265.0	-4,744.6	7,086.5	0.00	0.00	0.00
12,400.0	89.78	315.00	4,724.9	5,335.7	-4,815.3	7,186.4	0.00	0.00	0.00
12,500.0	89.78	315.00	4,725.3	5,406.4	-4,886.0	7,286.3	0.00	0.00	0.00
12,600.0	89.78	315.00	4,725.7	5,477.1	-4,956.8	7,386.3	0.00	0.00	0.00
12,700.0	89.78	315.00	4,726.0	5,547.8	-5,027.5	7,486.2	0.00	0.00	0.00
12,800.0	89.78	315.00	4,726.4	5,618.5	-5,098.2	7,586.1	0.00	0.00	0.00
12,900.0	89.78	315.00	4,726.8	5,689.2	-5,168.9	7,686.1	0.00	0.00	0.00
13,000.0	89.78	315.00	4,727.2	5,759.9	-5,239.6	7,786.0	0.00	0.00	0.00
13,100.0	89.78	315.00	4,727.6	5,830.6	-5,310.3	7,885.9	0.00	0.00	0.00
13,200.0	89.78	315.00	4,728.0	5,901.3	-5,381.0	7,985.9	0.00	0.00	0.00
13,300.0	89.78	315.00	4,728.4	5,972.1	-5,451.7	8,085.8	0.00	0.00	0.00
13,400.0	89.78	315.00	4,728.7	6,042.8	-5,522.4	8,185.8	0.00	0.00	0.00
13,500.0	89.78	315.00	4,729.1	6,113.5	-5,593.1	8,285.7	0.00	0.00	0.00
13,600.0	89.78	315.00	4,729.5	6,184.2	-5,663.9	8,385.6	0.00	0.00	0.00
13,700.0	89.78	315.00	4,729.9	6,254.9	-5,734.6	8,485.6	0.00	0.00	0.00
13,800.0	89.78	315.00	4,730.3	6,325.6	-5,805.3	8,585.5	0.00	0.00	0.00
13,900.0	89.78	315.00	4,730.7	6,396.3	-5,876.0	8,685.4	0.00	0.00	0.00
14,000.0	89.78	315.00	4,731.1	6,467.0	-5,946.7	8,785.4	0.00	0.00	0.00
14,100.0	89.78	315.00	4,731.4	6,537.7	-6,017.4	8,885.3	0.00	0.00	0.00
14,200.0	89.78	315.00	4,731.8	6,608.4	-6,088.1	8,985.2	0.00	0.00	0.00
14,300.0	89.78	315.00	4,732.2	6,679.2	-6,158.8	9,085.2	0.00	0.00	0.00
14,400.0	89.78	315.00	4,732.6	6,749.9	-6,229.5	9,185.1	0.00	0.00	0.00
14,500.0	89.78	315.00	4,733.0	6,820.6	-6,300.3	9,285.0	0.00	0.00	0.00
14,600.0	89.78	315.00	4,733.4	6,891.3	-6,371.0	9,385.0	0.00	0.00	0.00
14,700.0	89.78	315.00	4,733.8	6,962.0	-6,441.7	9,484.9	0.00	0.00	0.00
14,800.0	89.78	315.00	4,734.2	7,032.7	-6,512.4	9,584.9	0.00	0.00	0.00
14,900.0	89.78	315.00	4,734.5	7,103.4	-6,583.1	9,684.8	0.00	0.00	0.00
15,000.0	89.78	315.00	4,734.9	7,174.1	-6,653.8	9,784.7	0.00	0.00	0.00
15,100.0	89.78	315.00	4,735.3	7,244.8	-6,724.5	9,884.7	0.00	0.00	0.00
15,200.0	89.78	315.00	4,735.7	7,315.5	-6,795.2	9,984.6	0.00	0.00	0.00
15,300.0	89.78	315.00	4,736.1	7,386.2	-6,865.9	10,084.5	0.00	0.00	0.00
15,400.0	89.78	315.00	4,736.5	7,457.0	-6,936.7	10,184.5	0.00	0.00	0.00
15,500.0	89.78	315.00	4,736.9	7,527.7	-7,007.4	10,284.4	0.00	0.00	0.00
15,537.0	89.78	315.00	4,737.0	7,553.8	-7,033.5	10,321.4	0.00	0.00	0.00



Planning Report

Database: EDM
Company: Enduring Resources LLC
Project: San Juan Basin - W Lybrook Unit
Site: 720H Pad
Well: 758H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well 758H
TVD Reference: KB @ 6744.0usft (Original Well Elev)
MD Reference: KB @ 6744.0usft (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)
-----------------------------	--------------------	----------------	-----------------------------	-----------------	-----------------	-------------------------------	-------------------------------	------------------------------	-----------------------------

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
758H KOP - plan hits target center - Point	0.00	0.00	3,947.0	-350.0	550.0	1,896,270.32	2,746,357.35	36.211437°N	107.754466°W
758H POE - plan hits target center - Point	0.00	0.00	4,697.0	232.1	288.3	1,896,852.43	2,746,095.66	36.213037°N	107.755351°W
758H BHL - plan hits target center - Point	0.00	0.00	4,737.0	7,553.8	-7,033.5	1,904,174.14	2,738,773.83	36.233164°N	107.780158°W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
340.0	340.0	9 5/8"	9-5/8	12-1/4



Planning Report

Database: EDM
Company: Enduring Resources LLC
Project: San Juan Basin - W Lybrook Unit
Site: 720H Pad
Well: 758H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well 758H
TVD Reference: KB @ 6744.0usft (Original Well Elev)
MD Reference: KB @ 6744.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations

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	
1,414.0	1,414.0	Chacra		0.00	
2,508.7	2,482.0	Cliff House		0.00	
2,521.2	2,494.0	Menefee		0.00	
3,531.5	3,464.0	Point Lookout		0.00	
3,807.5	3,729.0	Mancos		0.00	
4,041.8	3,954.0	Gallup (MNCS_A)		0.00	
4,140.0	4,050.0	MNCS_B		0.00	
4,275.6	4,184.0	MNCS_C		0.00	
4,275.6	4,184.0	MNCS_Cms		0.00	
4,414.1	4,316.0	MNCS_D		0.00	
4,568.9	4,449.0	MNCS_E		0.00	
4,659.0	4,516.0	MNCS_F		0.00	
4,762.6	4,581.0	MNCS_G		0.00	
4,853.5	4,626.0	MNCS_H		0.00	
4,989.7	4,672.0	MNCS_I		0.00	
5,182.4	4,697.0	MNCS_I (TARGET)		0.00	