State of New Mexico Energy, Minerals and Natural Resources Department

Govern	nor		STATE OF NEW METICO
Ken McC Cabinet		Heather Riley, Division Director Dil Conservation Division	
Deputy (as Sayer Cabinet Secretary Ew Mexico Oil Conservation Division approvelow are made in accordance with OCD Rule actions approved by BLM on the following the second	19.15.7.11 and are in additi	on to the
Well i	ator Signature Date: 10/4/2018 information; ator Encuring, Well Name and Nur	mber Le), Lybrack	Und 770H
API#_	30-045-35893, Section 23, Town	nship 33 (N)S, Range	9_E/W
	ditions of Approval: (See the below checked Notify Aztec OCD 24hrs prior to casing & cen	and handwritten conditions)	
6	Hold C-104 for directional survey & "As Drill		
0			
0		up with change of status notifi	cation on other well
0	Regarding the use of a pit, closed loop system with the following as applicable:	or below grade tank, the opera	ator must comply
	 A pit requires a complete C-144 be sul use of the pit, pursuant to 19.15.17.8.A 		the construction or
	A closed loop system requires notifica	ation prior to use, pursuant to 1	9.15.17.9.A
	 A below grade tank requires a registra below grade tank, pursuant to 19.15.17 		ruction or use of the
0	Once the well is spud, to prevent ground water from the surface, the operator shall drill without zones and shall immediately set in cement the	ut interruption through the fres	
0	Submit Gas Capture Plan form prior to spudding	ng or initiating recompletion of	perations
√	Regarding Hydraulic Fracturing, review EPA	Underground Injection Contro	l Guidance 84
✓	Oil base muds are not to be used until fresh wa isolation from the oil or diesel. This includes s solids must be contained in a steel closed loop	synthetic oils. Oil based mud, o	nted providing drilling fluids and
*	Well-bore communication is regulated under 1 Communication to be reported in accordance of the communication to be used as a c	with 19.15.29.8.	well-bore intermediate
62	Ed fell	12/19/18	

Date

NMOCD Approved by Signature

Form 3160-3 (June 2015) UNITED STATES	q			FORM APP OMB No. 10 Expires: Januar	004-0137
DEPARTMENT OF THE I BUREAU OF LAND MAN	NTERIOR			5. Lease Serial No. N0G13121862	
APPLICATION FOR PERMIT TO D	RILL OR I	REENTER		6. If Indian, Allotee or T EASTERN NAVAJO	ribe Name
	EENTER ther			7. If Unit or CA Agreem INITIAL MANCOS PA	/ NMNM135216A
1c. Type of Completion: Hydraulic Fracturing Si		8. Lease Name and Well W LYBROOK UNIT 770H	No.		
2. Name of Operator ENDURING RESOURCES LLC			<u> </u>	9. API Well No.	35893
3a. Address 1050 17TH ST STE 2500 DENVER CO 80265	3b. Phone No. (505)386-82	o. (include area code 205	(e)	10. Field and Pool, or Ex BASIN MANCOS / MA	1
4. Location of Well (Report location clearly and in accordance of At surface SENE / 1829 FNL / 759 FEL / LAT 36.2146 At proposed prod. zone SENE / 1529 FNL / 330 FEL / LAT	33 / LONG -1	07.751787	644	11. Sec., T. R. M. or Blk SEC 23 / T23N / R9W	
14. Distance in miles and direction from nearest town or post off 37 miles	ice*			12. County or Parish SAN JUAN	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No of act	res in lease	17. Spacin 360	ng Unit dedicated to this v	NMOGD
18. Distance from proposed location* to nearest well, drilling, completed, 759 feet applied for, on this lease, ft.	19. Proposed 4307 feet /		300	BIA Bond No. in file 30016899	NOV 2 1 201
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6737 feet	22. Approxir 11/01/2018	nate date work will	start*	23. Estimated duration 30 days	STRICT II
	24. Attacl	hments			
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oil a	and Gas Order No. 1	, and the H	lydraulic Fracturing rule p	per 43 CFR 3162.3-3
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office	Item 20 above). 5. Operator certific	eation.	s unless covered by an exist		

- n file (see
- d by the

25. Signature (Electronic Submission)	Name (Printed/Typed) Lacey Granillo / Ph: (50	Date 10/04/2018
Title		'
Permitting Specialist		
Approved by (Signature)	Name (Printed/Typed)	Date 11/20/2018
Title	Office	1 1 2 6
AtM	FARMINGTON	
Application approval does not warrant or der	tify that the applicant holds legal or equitable title to	those rights in the subject lease which would entitle the

applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4



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

N/2 NE/4, SE/4 NE/4 - Section 25

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

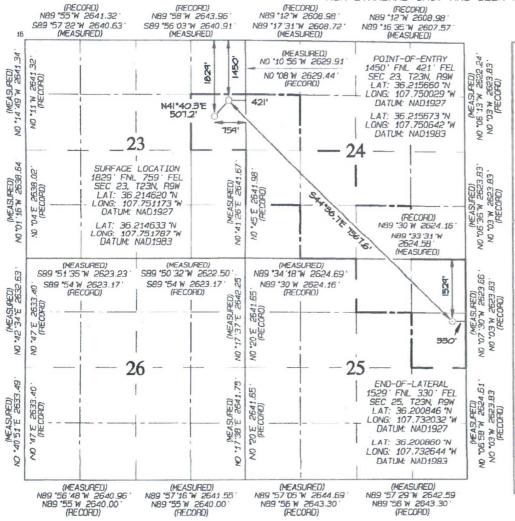
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

35893	*Pool Code 98157	POOL Name LYBROOK MANCO	OS W
Property Code		ty Name	"Well Number
321259		DOK UNIT	770H
70GRID No.	*Operat	*Elevation	
372286	ENDURING RE	6737'	

					¹⁰ Surface	Location			
UL or lot no.	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 1829	NORTH	Feet from the 759	East/West line	SAN JUAN
		:	Botto	m Hole	Location I	f Different	From Surfac	ie I	
UL or lot no.	Section 25	23N	Range 9W	Lot Idn	Feet from the	North/South line	Feet from the 330	East/West line EAST	SAN JUAN
Bedicated Acres 360.0 SE/4 NE/4 - Section 23 SW/4 NW/4, N/2 SW/4			¹³ Jaint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14051	- 12,807	.24 Acres		
SE/4 SW/		4 SF/4				A			

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



OPERATOR CERTIFICATION "OPERATUR 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 complisory pooling order
haveture entered by the division. 9/26/18 Lacey Granillo Printed Name lgranillo@enduringresources.com E-mail Address 16 SURVEYOR CERTIFICATION SUMVETUM CENTIFICATION
I hereby certify that the well location
shown on this plat was plotted from field
notes of actual surveys made by me or und
my supervision, and that the same is true
and correct to the best of my belief. Date Revised: SEPTEMBER 20, Date of Survey: MAY 16, 2018 Signature and Seal of Professional Surveyor C. EDWARDS JASON MEXICO JEW REGISTERED SAMEYOR APOFESSIONAL. **DWARDS**

Certificate Number

15269



DRILLING PLAN:

Drill, complete, and equip single lateral in the Mancos Silt formation

WELL INFORMATION:

Name: W Lybrook Unit 770H

API Number: 30-045-35893

State: New Mexico County: San Juan

Surface Elevation:

6,737 ft ASL (GL)

6,762 ft ASL (KB)

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

1,829 ft FNL

759 ft FEL

36.214633 ° N latitude 107.751787 ° W longitude

(NAD 83)

BH Location: 25-23N-09W Sec-Twn-Rng

1,529 ft FNL

330 ft FEL

36.20086 ° N latitude 107.732644 ° W longitude

(NAD 83)

Driving Directions: From the intersection of US HWY 550 and US HWY 64 in Bloomfield, NM: South on US HWY 550 for 38.3 miles to MM 113.4, right (southwest) at on CR #7890 for 0.8 miles to fork; left (south) staying on #7890 for 1.3 miles to 4-way intersection, left (southeast) staying on #7890 for 0.6 miles to fork, right (west) exiting from #7890 onto existing roadway for 0.6 miles to fork in road, right (northwest) for 0.6 miles to beginning of access road on the right, right approximately 0.2 miles to the W Lybrook Unit 768H pad.

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:

Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O/G/W	Pressure
Ojo Alamo	6,354	408	408	W	normal
Kirtland	6,245	517	517	W	normal
Fruitland	6,047	715	715	G, W	sub
Pictured Cliffs	5,670	1,092	1,096	G, W	sub
Lewis	5,447	1,315	1,326	G, W	normal
Chacra	5,305	1,457	1,475	G, W	normal
Cliff House	4,230	2,532	2,597	G, W	sub
Menefee	4,215	2,547	2,613	G, W	normal
Point Lookout	3,248	3,514	3,623	G, W	normal
Mancos	2,983	3,779	3,896	O,G	sub (~0.38)
Gallup (MNCS_A)	2,762	4,000	4,128	O,G	sub (~0.38)
MNCS_Cms (TARGET)	2,422	4,340	5,102	O,G	sub (~0.38)
PROJECTED WELL TD	2,455	4,307	12,702	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

0.43 Max. pressure gradient: psi/ft Evacuated hole gradient: Maximum anticipated BH pressure, assuming maximum pressure gradient:

0.22 psi/ft 1,870 psi

Maximum anticipated surface pressure, assuming partially evacuated hole:

920

psi

Temperature: Maximum anticipated BHT is 155° 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 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 double gate ram (13-5/8", 3,000 psi)

BOPE 2: Cameron annular (13-5/8", 2,500 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 10 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 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:

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

-	, , ,	2 / //	, , ,		
	0 ft (MD)	to	240 ft (MD)	Hole Section Length:	240 ft
	0 ft (TVD)	to	240 ft (TVD)	Casing Required:	240 ft

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

Fluid: MW (ppg) (mL/30 min) PV (cp) (lb/100 sqft) Type pH 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, run deviation survey after drilling

Logging: None

							Tens. Body	Tens. Conn
Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	13.375	54.5	J-55	BTC	1,130	2,730	853,000	909,000
Loading					105	570	111,406	111,406
Min. S.F.					10.78	4.79	7.66	8.16

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):

Minumum:

N/A Optimum:

Maximum:

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

			Yield	Water	Hole Cap.		Planned TOC	Total Cmt
t:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	(cuft/ft)	% Excess	(ft MD)	(sx)
	Class G	15.8	1.174	5.15	0.6946	100%	0	284

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, install wellhead.

240 ft (MD)	to	2,718 ft (MD)	Hole Section Length:	2,478 ft
240 ft (TVD)	to	2,647 ft (TVD)	Casing Required:	2,718 ft

			FL		YP		
Fluid:	Type	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	pН	Comments
	WBM	8.8 - 9.5	20	8 - 14	8 - 14	9.0 - 9.5	OBM as contingency

Hole Size: 12-1/4"

Bit / Motor: PDC w/mud motor

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

Logging: None

Pressure Test: NU BOPE and test (as noted above); pressure test 13-3/8" casing to

1,500 psi for 30 minutes.

							Tens. Body	Tens. Conn	
Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)	
Specs	9.625	36.0	J-55	LTC	2,020	3,520	564,000	453,000	
Loading					1,156	1,071	185,328	185,328	
Min. S.F.					1.75	3.29	3.04	2.44	

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

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

Maximum:

5,660

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

			Yield	Water	Hole Cap.		Planned TOC	Total Cmt	
Cement:	Туре	Weight (ppg)	(cuft/sk)	(gal/sk)	(cuft/ft)	% Excess	(ft MD)	(sx)	-
Lead	G:POZ Blend	12.3	1.987	10.16	0.3132	40%	0	489	
Tail	Class G	15.8	1.148	4.98	0.3132	10%	2,218	150	-

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.

2,718 ft (MD)	to	12,702 ft (MD)	Hole Section Length:	9,984 ft
2,647 ft (TVD)	to	4,307 ft (TVD)	Casing Required:	12,702 ft

Estimated KOP:	3,734 ft (MD)	3,620 ft (TVD)
Estimated Landing Point (P.O.E.):	5,102 ft (MD)	4,340 ft (TVD)
Estimated Lateral Length:	7,600 ft (MD)	

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

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.

							Tens. Body	Tens. Conn
Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	5.500	17.0	P-110	LTC	7,460	10,640	546,000	445,000
Loading					2,128	8,903	286,331	286,331
Min. S.F.					3.51	1.20	1.91	1.55

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

Optimum:

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

MU Torque (ft lbs):

Minumum:

3,470

4,620

Maximum:

Casing Details: Float shoe, float collar, 2 its casing, float collar, 1 it casing, toe-intitiation sleeve, 1 it casing, 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 the 330' unit setback.

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

Lateral: estimated 1 centralizer per joints

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

			Yield	Water	Hole Cap.		Planned TOC	Total Cmt
Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	(cuft/ft)	% Excess	(ft MD)	(sx)
Lead	G:POZ blend	12.3	1.987	10.16	0.2691	40%	0	661
Tail	G:POZ blend	13.3	1.354	5.94	0.2291	10%	3,620	1,690

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).

FINISH WELL: ND BOP, NU WH with BPV and cap, RDMO.

COMPLETION AND PRODUCTION PLAN:

Frac: Lateral will be fracture-stimulated in approximately 45 plug-and-perf stages with approximately 225,000 bbls slickwater fluid and 16,000,000 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 proppant volumes are low enough that the well can safely be produced through permanent

production facilities.

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

ESTIMATED START DATES:

Drilling:

12/1/2018

Completion:

1/31/2019

Production:

3/16/2019

Prepared by:

Alec Bridge

9/14/2018



Enduring Resources LLC

San Juan Basin - W Lybrook Unit 768H Pad 770H

Wellbore #1

Plan: Design #1

Standard Planning Report

14 September, 2018



Database:

EDM

Company:

Enduring Resources LLC

Project: Site:

San Juan Basin - W Lybrook Unit 768H Pad

Well:

770H

Wellbore: Design:

Wellbore #1 Design #1

TVD Reference: MD Reference:

North Reference: Survey Calculation Method:

Local Co-ordinate Reference:

Well 770H

KB @ 6762.0usft (Original Well Elev) KB @ 6762.0usft (Original Well Elev)

Grid

Minimum Curvature

Project

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

Map System: Geo Datum:

US State Plane 1983

North American Datum 1983 New Mexico Western Zone

System Datum:

Mean Sea Level

Map Zone: Site

768H Pad, San Juan County, New Mexico

Site Position:

Lat/Long

Northing: Easting:

1,897,416.80 usft 2,747,156.27 usft

Latitude:

Longitude:

36.214585°N

Position Uncertainty:

Slot Radius:

13-3/16 "

107.751754°W

0.0 usft

Grid Convergence:

0.05°

Well

From:

770H

Well Position

+N/-S +E/-W 17.5 usft -9.7 usft

Northing:

Easting:

12/31/2009

1,897,434.27 usft 2,747,146.52 usft Latitude: Longitude:

36.214633°N 107.751787°W

Position Uncertainty

0.0 usft

Wellhead Elevation:

Ground Level:

6,737.0 usft

Wellbore

Wellbore #1

Magnetics

Model Name

IGRF200510

Sample Date

Declination (°) 9,99 Dip Angle (°)

Field Strength

(nT)

50,605.72481936

Design

Design #1

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.0

63.06

Vertical Section:

Depth From (TVD)

(usft)

0.0

+N/-S (usft) 0.0

+E/-W (usft) 0.0

Direction (°)

131.55

Plan Survey Tool Program

Date 9/14/2018

Depth From Depth To (usft) (usft)

Survey (Wellbore)

Tool Name

Remarks

0.0

12,702.4 Design #1 (Wellbore #1)

MWD

OWSG MWD - Standard

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	
240.0	0.00	0.00	240.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,337.7	16.75	319.22	1,325.8	92.1	-79.4	2.00	2.00	0.00	319.22	
3,733.6	16.75	319.22	3,620.0	615.1	-530.5	0.00	0.00	0.00	0.00	770H - KOP
4,713.2	84.07	105.07	4,318.6	588.5	-21.9	10.00	6.87	14.89	145.68	
5,134.7	90.25	135.39	4,340.0	378.9	337.3	7.33	1.46	7.19	79.51	770H - POE2
12,702.4	90.25	135.39	4,307.0	-5,008.4	5,652.0	0.00	0.00	0.00	0.00	770H - BHL2



Database:

EDM

Company:

Enduring Resources LLC

Project:

San Juan Basin - W Lybrook Unit 768H Pad

Site: Well: Wellbore:

770H Wellbore #1 Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well 770H

KB @ 6762.0usft (Original Well Elev) KB @ 6762.0usft (Original Well Elev)

Grid

Minimum Curvature

100.0									Design #1	esign:
Depth (usft)										anned Survey
(usft) (?) (usft) (usft) (usft) (Usft) (**Plobusft) (**Plobusft) 0.0 0.00 0.00 0.0	Turn Rate		NAME OF STREET PARTY AND POSSESSOR OF THE PARTY OF THE PA							
1000										
200.0 0.00 0.00 200.0 0.0 0.0 0.0 0.0 0.		0.00								
240.0 0.00 0.00 300.0 0.0 0.0 0.0 0.0 0.00 0.00 0.00 300.0 0.00 0	0.00	0.00	0.00	0.0	0.0	0.0	100.0	0.00	0.00	100.0
300.0 0.00 0.00 300.0 0.0 0.0 0.0 0.00 0.00 0.00 600.0 0.00	0.00	0.00	0.00	0.0	0.0	0.0	200.0	0.00	0.00	200.0
300.0 0.00 0.00 300.0 0.0 0.0 0.0 0.00 0	0.00	0.00	0.00	0.0	0.0	0.0	240.0	0.00	0.00	240.0
500.0 0.00 0.00 0.0 0.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2.00 1.00 1.00 319.22 1.995.6 47.4 4.09 -62.0 2.00 2.00 1.100 1.00 319.22 1.198.1 64.4 -55.6 -84.3 2.00 2.00 1.200 1.100 319.22 1.189.1 64.4 -55.6 -84.3 2.00 2.00 1.200 1.000 1.00 319.22 1.189.1 1.64.4 -55.6 -84.3 2.00 2.00 1.00 1.180.0 1.67.5 319.22 1.25.7 1.00 1.00 1		0.00								
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2,300.0 16.75 319.22 2,247.3 302.1 -260.6 -395.4 0.00 0.00 2,400.0 16.75 319.22 2,343.0 324.0 -279.4 -424.0 0.00 0.00 2,500.0 16.75 319.22 2,438.8 345.8 -298.3 -452.6 0.00 0.00 2,600.0 16.75 319.22 2,534.5 367.6 -317.1 -481.1 0.00 0.00 2,700.0 16.75 319.22 2,630.3 389.5 -335.9 -509.7 0.00 0.00 2,800.0 16.75 319.22 2,726.0 411.3 -354.7 -538.3 0.00 0.00 2,900.0 16.75 319.22 2,821.8 433.1 -373.6 -566.8 0.00 0.00 3,000.0 16.75 319.22 2,917.6 454.9 -392.4 -595.4 0.00 0.00 3,100.0 16.75 319.22 3,013.3 476.8 -411.2 -624.0 0.00 0.00 3,200.0 16.75 319.22 3,204.8 520.4 <td></td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		0.00								
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3,700.0 16.75 319.22 3,587.8 607.7 -524.2 -795.4 0.00 0.00 3,733.6 16.75 319.22 3,620.0 615.1 -530.5 -805.0 0.00 0.00 3,800.0 11,86 337.72 3,684.4 628.6 -539.3 -820.6 10,00 -7.37 3,900.0 9.73 32.11 3,782.8 645.4 -538.8 -831.2 10.00 -2.13 4,000.0 15.71 70.20 3,880.5 657.1 -521.5 -826.1 10.00 5.98 4,100.0 24.44 84.79 3,974.4 663.6 -488.1 -805.4 10.00 8.73 4,200.0 33.85 91.83 4,061.7 664.6 -439.5 -769.7 10.00 9.41 4,300.0 43.50 96.05 4,139.6 660.1 -377.3 -720.1 10.00 9.65 4,400.0 53.26 98.98 4,206.0 650.2 -303.3 -658.2 10.00 9.76 4,500.0 63.07 101.25 4,258.7 635.2 -219.8 -585.7 10.00 9.81		0.00								
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4,500.0 63.07 101.25 4,258.7 635.2 -219.8 -585.7 10.00 9.81										
4 600 D 72 02 402 16 4206 1 646 420 606 4000 004										
4,000.0 12.32 103.13 4,230.1 013.0 -123.3 -303.0 10.00 9.84	1.90	9.84	10.00	- 505.0	-129.3	615.6	4,296.1	103.15	72.92	4,600.0
4,700.0 82.78 104.85 4,317.1 591.9 -34.6 -418.4 10.00 9.86	36 1.71	9.86	10.00	-418.4	-34.6	591.9	4,317.1	104.85	82.78	4.700.0
		9.87								
		1.37								
A \$100 CONTROL OF THE STATE OF		1.44								



Database:

Company:

EDM Enduring Resources LLC

Project:

San Juan Basin - W Lybrook Unit

Site: Well: Wellbore: 768H Pad 770H Wellbore #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 770H

KB @ 6762.0usft (Original Well Elev)

KB @ 6762.0usft (Original Well Elev)

Grid

Minimum Curvature

Vellbore: Design:	Design #1					1 4 4 5			
Planned Survey									
Measured Depth (usft)	Inclination	Azimuth	Vertical Depth (usft)	+N/-S	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.0	(°) 88.20	(°) 125.73	4,338.2	(usft) 466.4	235.1	-133.4	7.33	1,49	7.18
5,100.0		132.90	4,340.0	403.1	312.4	-33.5	7.33	1.52	7.17
5,134.7		135.39	4,340.0	378.9	337.3	1.2	7.33	1.53	7.17
5,200.0		135.39	4,339.7	332.4	383.1	66.3	0.00	0.00	0.00
5,300.0		135.39	4,339.3	261.2	453.4	166.1	0.00	0.00	0.00
5,400.0	90.25	135.39	4,338.8	190.0	523.6	265.8	0.00	0.00	0.00
5,500.0	90.25	135.39	4,338.4	118.8	593.8	365.6	0.00	0.00	0.00
5,600.0	90.25	135.39	4,338.0	47.7	664.1	465.4	0.00	0.00	0.00
5,700.0	90.25	135.39	4,337.5	-23.5	734.3	565.2	0.00	0.00	0.00
5,800.0		135.39	4,337.1	-94.7	804.5	664.9	0.00	0.00	0.00
5,900.0	90.25	135.39	4,336.7	-165.9	874.7	764.7	0.00	0.00	0.00
6,000.0	90.25	135.39	4,336.2	-237.1	945.0	864.5	0.00	0.00	0.00
6,100.0		135.39	4,335.8	-308.3	1,015.2	964.3	0.00	0.00	0.00
6,200.0		135.39	4,335.4	-379.5	1,085.4	1,064.0	0.00	0.00	0.00
6,300.0		135.39	4,334.9	-450.7	1,155.7	1,163.8	0.00	0.00	0.00
6,400.0		135.39	4,334.5	-521.8	1,225.9	1,263.6	0.00	0.00	0.00
6,500.0		135.39	4,334.0	-593.0	1,296.1	1,363.4	0.00	0.00	0.00
6,600.0		135.39	4,333.6	-664.2	1,366.3	1,463.1	0.00	0.00	0.00
6,700.0		135.39	4,333.2	-735.4	1,436.6	1,562.9	0.00	0.00	0.00
6,800.0		135.39	4,332.7	-806.6	1,506.8	1,662.7	0.00	0.00	0.00
6,900.0	90.25	135.39	4,332.3	-877.8	1,577.0	1,762.5	0.00	0.00	0.00
7,000.0	90.25	135.39	4,331.9	-949.0	1,647.3	1,862.2	0.00	0.00	0.00
7,100.0	90.25	135.39	4,331.4	-1,020.2	1,717.5	1,962.0	0.00	0.00	0.00
7,200.0	90.25	135.39	4,331.0	-1,091.4	1,787.7	2,061.8	0.00	0.00	0.00
7,300.0	90.25	135.39	4,330.6	-1,162.5	1,857.9	2,161.6	0.00	0.00	0.00
7,400.0	90.25	135.39	4,330.1	-1,233.7	1,928.2	2,261.3	0.00	0.00	0.00
7.500.0	00.25	125.20	4 220 7	1 201 0	1.000.4	2 264 4	0.00	0.00	0.00
7,500.0		135.39	4,329.7	-1,304.9	1,998.4	2,361.1	0.00	0.00	0.00
7,600.0 7,700.0		135.39	4,329.2	-1,376.1	2,068.6	2,460.9 2,560.7	0.00	0.00	0.00
7,700.0		135.39 135.39	4,328.8	-1,447.3 -1,518.5	2,138.9 2,209.1	2,660.4	0.00	0.00	0.00
7,900.0		135.39	4,328.4 4,327.9	-1,518.5	2,209.1	2,760.2	0.00	0.00	0.00
				-1,309.7	2,219.3	2,700.2	0.00	0.00	
8,000.0	90.25	135.39	4,327.5	-1,660.9	2,349.5	2,860.0	0.00	0.00	0.00
8,100.0	90.25	135.39	4,327.1	-1,732.0	2,419.8	2,959.8	0.00	0.00	0.00
8,200.0		135.39	4,326.6	-1,803.2	2,490.0	3,059.5	0.00	0.00	0.00
8,300.0		135.39	4,326.2	-1,874.4	2,560.2	3,159.3	0.00	0.00	0.00
8,400.0	90.25	135.39	4,325.8	-1,945.6	2,630.5	3,259.1	0.00	0.00	0.00
8,500.0	90.25	135.39	4,325.3	-2,016.8	2,700.7	3,358.8	0.00	0.00	0.00
8,600.0		135.39	4,324.9	-2,088.0	2,770.9	3,458.6	0.00	0.00	0.00
8,700.0		135.39	4,324.5	-2,159.2	2,841.2	3,558.4	0.00	0.00	0.00
8.800.0		135.39	4,324.0	-2,230.4	2,911.4	3,658.2	0.00	0.00	0.00
8,900.0		135.39	4,323.6	-2,301.5	2,981.6	3,757.9	0.00	0.00	0.00
9,000.0		135.39	4,323.1	-2,372.7	3,051.8	3,857.7	0.00	0.00	0.00
9,100.0		135.39	4,322.7	-2,443.9	3,122.1	3,957.5	0.00	0.00	0.00
9,200.0		135.39	4,322.3	-2,515.1	3,192.3	4,057.3	0.00	0.00	0.00
9,300.0		135.39	4,321.8	-2,586.3	3,262.5	4,157.0	0.00	0.00	0.00
9,400.0	90.25	135.39	4,321.4	-2,657.5	3,332.8	4,256.8	0.00	0.00	0.00
9,500.0	90.25	135.39	4,321.0	-2,728.7	3,403.0	4,356.6	0.00	0.00	0.00
9,600.0		135.39	4,320.5	-2,799.9	3,473.2	4,456.4	0.00	0.00	0.00
9,700.0		135.39	4,320.1	-2,871.0	3,543.4	4,556.1	0.00	0.00	0.00
9,800.0		135.39	4,319.7	-2,942.2	3,613.7	4,655.9	0.00	0.00	0.00
9,900.0		135.39	4,319.2	-3,013.4	3,683.9	4,755.7	0.00	0.00	0.00
10,000.0		135.39	4,318.8	-3,084.6	3,754.1	4,855.5	0.00	0.00	0.00
10,100.0		135.39	4,318.3	-3,155.8	3,824.4	4,955.2	0.00	0.00	0.00
10,200.0	90.25	135.39	4,317.9	-3,227.0	3,894.6	5,055.0	0.00	0.00	0.00



Database:

EDM

Company:

Enduring Resources LLC

Project:

San Juan Basin - W Lybrook Unit

Site: Well: 768H Pad 770H

Wellbore: Design: Wellbore #1 Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well 770H

KB @ 6762.0usft (Original Well Elev)

KB @ 6762.0usft (Original Well Elev)

Grid

Minimum Curvature

ign:	Design #1								
nned 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	90.25	135.39	4,317.5	-3,298.2	3,964.8	5,154.8	0.00	0.00	0.00
10,400.0	90.25	135.39	4,317.0	-3,369.4	4,035.0	5,254.6	0.00	0.00	0.00
10,500.0	90.25	135.39	4,316.6	-3,440.6	4,105.3	5,354.3	0.00	0.00	0.00
10,600.0	90.25	135.39	4,316.2	-3,511.7	4,175.5	5,454.1	0.00	0.00	0.00
10,700.0	90.25	135.39	4,315.7	-3,582.9	4,245.7	5,553.9	0.00	0.00	0.00
10,800.0	90.25	135.39	4,315.3	-3,654.1	4,316.0	5,653.7	0.00	0.00	0.00
10,900.0	90.25	135.39	4,314.9	-3,725.3	4,386.2	5,753.4	0.00	0.00	0.00
11,000.0	90.25	135.39	4,314.4	-3,796.5	4,456.4	5,853.2	0.00	0.00	0.00
11,100.0	90.25	135.39	4,314.0	-3,867.7	4,526.6	5,953.0	0.00	0.00	0.00
11,200.0	90.25	135.39	4,313.6	-3,938.9	4,596.9	6,052.7	0.00	0.00	0.00
11,300.0	90.25	135.39	4,313.1	-4,010.1	4,667.1	6,152.5	0.00	0.00	0.00
11,400.0	90.25	135.39	4,312.7	-4,081.2	4,737.3	6,252.3	0.00	0.00	0.00
11,500.0	90.25	135.39	4,312.2	-4,152.4	4,807.6	6,352.1	0.00	0.00	0.00
11,600.0	90.25	135.39	4,311.8	-4,223.6	4,877.8	6,451.8	0.00	0.00	0.00
11,700.0	90.25	135.39	4,311.4	-4,294.8	4,948.0	6,551.6	0.00	0.00	0.00
11,800.0	90.25	135.39	4,310.9	-4,366.0	5,018.2	6,651.4	0.00	0.00	0.00
11,900.0	90.25	135.39	4,310.5	-4,437.2	5,088.5	6,751.2	0.00	0.00	0.00
12,000.0	90.25	135.39	4,310.1	-4,508.4	5,158.7	6,850.9	0.00	0.00	0.00
12,100.0	90.25	135.39	4,309.6	-4,579.6	5,228.9	6,950.7	0.00	0.00	0.00
12,200.0	90.25	135.39	4,309.2	-4,650.7	5,299.2	7,050.5	0.00	0.00	0.00
12,300.0	90.25	135.39	4,308.8	-4,721.9	5,369.4	7,150.3	0.00	0.00	0.00
12,400.0	90.25	135.39	4,308.3	-4,793.1	5,439.6	7,250.0	0.00	0.00	0.00
12,500.0	90.25	135.39	4,307.9	-4,864.3	5,509.8	7,349.8	0.00	0.00	0.00
12,600.0	90.25	135.39	4,307.4	-4,935.5	5,580.1	7,449.6	0.00	0.00	0.00
12,700.0	90.25	135.39	4,307.0	-5,006.7	5,650.3	7,549.4	0.00	0.00	0.00
12,702.4	90.25	135.39	4,307.0	-5,008.4	5,652.0	7,551.8	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
770H - KOP - plan hits target cent - Point	0.00 er	0.00	3,620.0	615.1	-530.5	1,898,049.34	2,746,616.02	36.216324°N	107.753584°W
770H - BHL2 - plan hits target cent - Point	0.00 er	0.00	4,307.0	-5,008.4	5,652.0	1,892,425.87	2,752,798.52	36.200860°N	107.732645°W
770H - POE2 - plan hits target cent - Point	0.00 er	0.00	4,340.0	378.9	337.3	1,897,813.14	2,747,483.82	36.215673°N	107.750643°W

Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (")	Hole Diameter (")
240.0	240.0	13 3/8"		13-3/8	17-1/2
2,717.5	2,647.0	9 5/8"		9-5/8	12-1/4



Database: Company:

Enduring Resources LLC

Project:

San Juan Basin - W Lybrook Unit

Site: Well: Wellbore:

Design:

768H Pad 770H Wellbore #1

Design #1

EDM

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well 770H

KB @ 6762.0usft (Original Well Elev)

KB @ 6762.0usft (Original Well Elev)

Grid

Minimum Curvature

ormations				
	Measured Depth (usft)	Vertical Depth (usft)	Name	Dip Dip Direction Lithology (°) (°)
	408.0	408.0	Ojo Alamo	0.00
	517.0	517.0	Kirtland	0.00
	715.2	715.0	Fruitland	0.00
	1,096.3	1,092.0	Pictured Cliffs	0.00
	1,326.4	1,315.0	Lewis	0.00
	1,474.7	1,457.0	Chacra	0.00
	2,597.4	2,532.0	Cliff House	0.00
	2,613.0	2,547.0	Menefee	0.00
	3,622.9	3,514.0	Point Lookout	0.00
	3,896.1	3,779.0	Mancos	0.00
	4,128.4	4,000.0	Gallup (MNCS_A)	0.00
	4,247.5	4,100.0	MNCS_B	0.00
	4,445.9	4,232.0	MNCS_C	0.00
	4,455.4	4,237.0	MNCS_Cms	0.00
	5,101.9	4,340.0	MNCS_Cms (TARGET)	0.00



Enduring Resources LLC

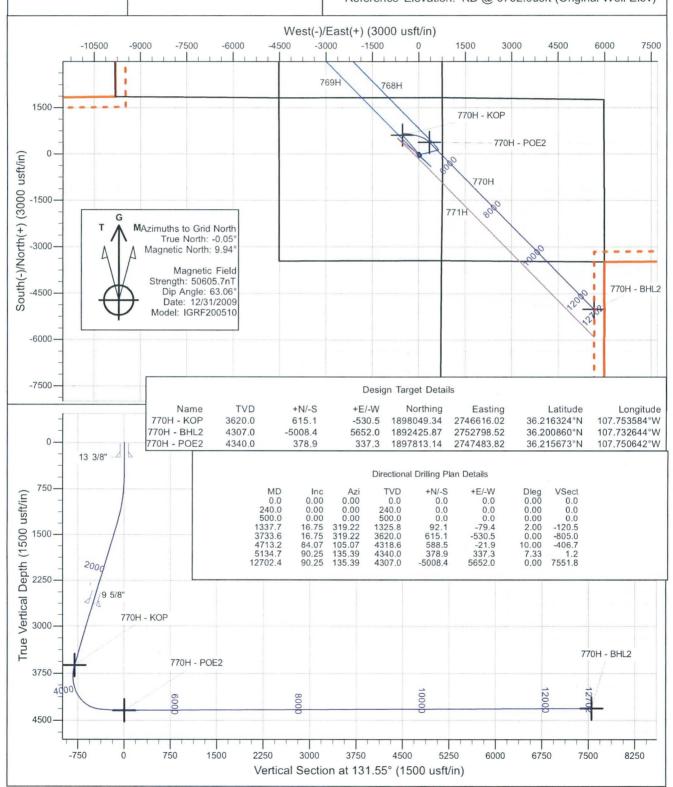
Directional Drilling Plan Plan View & Section View

W Lybrook Unit 770H

San Juan County, New Mexico T23N-R09W-Sec.13 Surface Latitude: 36.214633°N

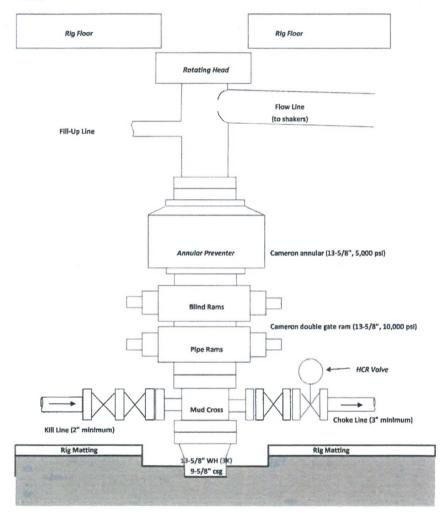
Surface Latitude: 36.214633°N Surface Longitude: 107.751787°W Ground Level: 6737.0

Reference Elevation: KB @ 6762.0usft (Original Well Elev)

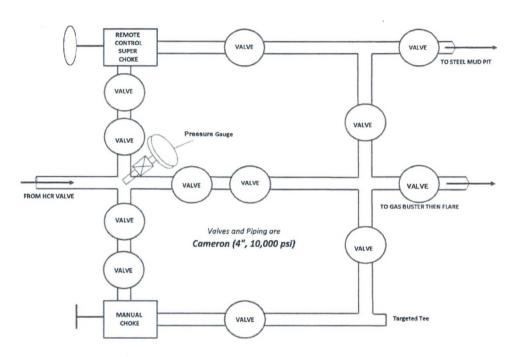


BOPE & CHOKE MANIFOLD DIAGRAMS

BOPE



CHOKE MANIFOLD



<u>Directions from the Intersection of US Hwy 550 & US Hwy 64</u> in Bloomfield, NM to Enduring Resources, LLC W Lybrook Unit #770H 1829' FNL & 759' FEL, Section 23, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.214537°N Longitude: 107.751721°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 38.3 miles to Mile Marker 113.4;

Go Right (South-westerly) on County Road #7890 for 0.8 miles to fork in roadway;

Go Left (Southerly) remaining on County Road #7890 for 1.3 miles to four-way intersection;

Go Left (South-easterly) remaining on County Road #7890 for 0.6 miles to fork in roadway;

Go Right (South-westerly) remaining on County Road #7890 for 0.6 miles to fork in roadway;

Go Right (Westerly) exiting County Road #7890 onto existing roadway for 0.6 miles to fork in roadway;

Go Right (North-westerly) for 0.6 miles to begin proposed access on right-hand side of existing roadway which continues for 1056.1' to staked Enduring W Lybrook Unit #770H location.