

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: NORTH ALAMITO UNIT	Well Location: T23N / R7W / SEC 17 / SESW / 36.220102 / -107.599751	County or Parish/State: RIO ARRIBA / NM
Well Number: 005H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM81638	Unit or CA Name: /1/NORTH ALAMITO UNIT	Unit or CA Number: NMNM135229A
US Well Number: 3003931428	Well Status: Drilling Well	Operator: DJR OPERATING LLC

Notice of Intent

Sundry ID: 2774844

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 02/12/2024

Time Sundry Submitted: 05:37

Date proposed operation will begin: 02/12/2024

Procedure Description: The subject well is located within DJRs undivided North Alamito Unit. Original plans were to drill a 7990-ft lateral. DJR is seeking approval to shorten the lateral to 6565-ft, changing the proposed depth from 5410 / 13983 to 5396 / 12208, adjusting the BHL & reducing the dedicated acres from 480 to 400. Attached please find updated C102, revised drilling plan with new casing, cement assumptions, revised directional design and proposed wellbore diagram. Please note, effective December 21, 2023, Enduring Resources, LLC & DJR Operating, LLC are wholly owned subsidiaries of Enduring Resources, LLC. Leases, rights of way, wells, and other property interests will continue to be held in their current entity names.

NOI Attachments

Procedure Description

005H_NOI_Change_to_APD_Rev2_20240212173712.pdf

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SESW / 36.220102 / -107.599751

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ARRIBA / NM

Well Number: 005H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM81638

Unit or CA Name: /1/NORTH ALAMITO
UNIT

Unit or CA Number:
NMNM135229A

US Well Number: 3003931428

Well Status: Drilling Well

Operator: DJR OPERATING LLC

Conditions of Approval

Additional

DJR_Operating_LLC_North_Alamito_Unit_005H_BHL_Change_2774844_MHK_20240213113559.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SHAW-MARIE FORD

Signed on: FEB 12, 2024 05:37 PM

Name: DJR OPERATING LLC

Title: Regulatory Specialist

Street Address: 1 ROAD 3263

City: AZTEC

State: NM

Phone: (505) 632-3476

Email address: SFORD@DJRLLC.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: MATTHEW H KADE

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647736

BLM POC Email Address: MKADE@BLM.GOV

Disposition: Approved

Disposition Date: 02/13/2024

Signature: Matthew Kade

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., 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 Dr.
Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31428		² Pool Code 98174		³ Pool Name NORTH ALAMITO UNIT MANCOS OIL POOL	
⁴ Property Code 325267		⁵ Property Name NORTH ALAMITO UNIT			⁶ Well Number 005H
⁷ OGRID No 371838		⁸ Operator Name DJR OPERATING, LLC			⁹ Elevation 7025'

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
N	17	23N	7W		107'	SOUTH	2008'	WEST	RIO ARRIBA

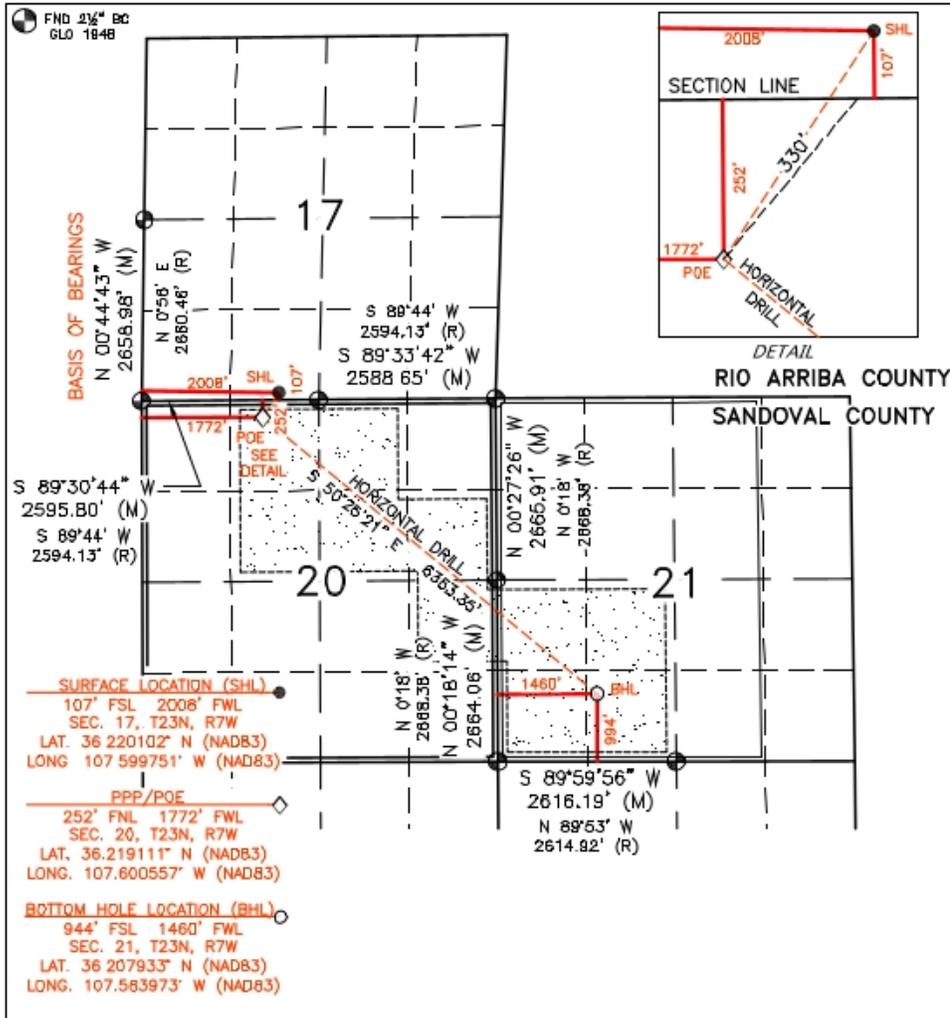
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	21	23N	7W		994'	SOUTH	1460'	WEST	SANDOVAL

¹² Dedicated Acres PENETRATED SPACING UNIT; SEC 20: NE/NW, SE/NW, NW/NE, SW/NE, SE/NE & NE/SE (240 AC.); SEC 21: SW/4 (160 AC.) = 400 ACRES		¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14081, R-14081A
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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

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17 OPERATOR CERTIFICATION

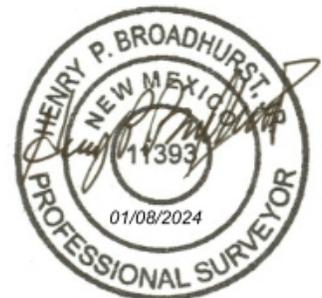
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this 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.

Shaw-Marie Ford 2/12/24
Signature Date
Shaw-Marie Ford
Printed Name
sford@djrlc.com
E-mail Address

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.
SEPTEMBER 3, 2020

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number 11393



ENDURING RESOURCES IV, LLC
6300 S SYRACUSE WAY, SUITE 525
CENTENNIAL, COLORADO 80211

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

WELL INFORMATION:

Name: NORTH ALAMITO UNIT 005H

API Number: 30-039-31428

AFE Number: Not yet assigned

ER Well Number: Not yet assigned

State: New Mexico

County: San Juan

Surface Elevation: 7,025 ft ASL (GL) 7,050 ft ASL (KB)
Surface Location: 17-23N-07W Sec-Twn-Rng 107 ft FSL 2,008 ft FWL
 36.220102 ° N latitude 107.599751 ° W longitude (NAD 83)
BH Location: 28-23N-07W Sec-Twn-Rng 155 ft FNL 510 ft FEL
 36.204774 ° N latitude 107.572908 ° 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 39.0 miles to MM 112.7, Right (South) on CR #7900 / IR #7061 for 5.1 miles to Y (just passed 4-way), Left (East) leaving CR #7900 for 4.0 miles to lease road; Left (NorthEast) for 1.8 miles to new access; Right (North) for 1.5 miles to NAU N17-2307 pad entrance on left (from South to North): N Alamito 006H, 005H wells.

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
	Ojo Alamo	5,875	1,175	1,175	W	normal
	Kirtland	5,753	1,297	1,298	W	normal
	Fruitland	5,573	1,477	1,482	G, W	sub
	Pictured Cliffs	5,255	1,795	1,808	G, W	sub
	Lewis	5,120	1,930	1,947	G, W	normal
	Chacra	4,850	2,200	2,224	G, W	normal
	Cliff House	3,774	3,276	3,326	G, W	sub
	Menefee	3,729	3,321	3,372	G, W	normal
	Point Lookout	2,917	4,133	4,205	G, W	normal
	Mancos	2,696	4,354	4,430	O,G	sub (~0.38)
	Gallup (MNCS_A)	2,367	4,683	4,760	O,G	sub (~0.38)
	MNCS_B	2,271	4,779	4,856	O,G	sub (~0.38)
	MNCS_C	2,176	4,874	4,951	O,G	sub (~0.38)
	MNCS_Cms	2,137	4,913	4,991	O,G	sub (~0.38)
	MNCS_D	2,006	5,044	5,129	O,G	sub (~0.38)
	MNCS_E	1,891	5,159	5,263	O,G	sub (~0.38)
	MNCS_F	1,844	5,206	5,326	O,G	sub (~0.38)
	MNCS_G	1,769	5,281	5,442	O,G	sub (~0.38)
	MNCS_H	1,716	5,334	5,546	O,G	sub (~0.38)
	MNCS_I	1,658	5,392	5,704	O,G	sub (~0.38)
	FTP TARGET	1,676	5,374	5,643	O,G	sub (~0.38)
	PROJECTED TD	1,654	5,396	12,208	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

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

Maximum anticipated BH pressure, assuming maximum pressure gradient: 2,330 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 1,150 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 7" casing to TD; gas detection 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 7" 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 (11", 3,000 psi)

BOPE 2: Cameron annular (11", 3,000 psi)

Choke 3", 5,000 psi

KB-GL (ft): 25

Note: Actual drilling rig may vary depending on availability at time the well is scheduled to be drilled.

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 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 and attached Newpark mud program for additional details.

DETAILED DRILLING PLAN:

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

0 ft (MD)	to	350 ft (MD)	Hole Section Length:	350 ft
0 ft (TVD)	to	350 ft (TVD)	Casing Required:	350 ft

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)	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, deviation survey

Logging: None

Casing Specs:	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)	
Specs	9.625	36.0	K-55	STC	2,020	3,520	564,000	423,000
Loading				153	1,154	110,988	110,988	
Min. S.F.				13.21	3.05	5.08	3.81	

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	Hole Cap. (cuft/ft)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Redi-Mix	TYPE I-II	14.5	1.61	7.41	0.3132	50%	0	114	184

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

Csg ID

8.921

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

350 ft (MD)	to	5,743 ft (MD)	Hole Section Length:	5,393 ft
350 ft (TVD)	to	5,400 ft (TVD)	Casing Required:	5,743 ft

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	LSND (KCl)	8.8 - 9.5	20	8 - 14	8 - 14	9.0 - 9.5	No OBM

Hole Size: 8.75

Bit / Motor: 8-3/4" PDC bit w/mud motor

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

Logging: None

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	7	26.0	K-55	LTC	4,320	4,980	415,000	367,000
Loading					2,359	1,459	230,213	230,213
Min. S.F.					1.83	3.41	1.80	1.59

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

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Lead	III:POZ Blend	12.5	2.140	12.05	70%	0	503	1,076
Tail	Type III	14.6	1.380	6.64	20%	4,330	192	264

Annular Capacity	0.16681	cuft/ft	7" casing x 9-5/8" casing annulus				Shoe Track L	44
	0.1503	cuft/ft	9-5/8" casing x 12-1/4" hole annulus				Casing ID	6.276
	0.2148	cuft/ft	7" casing casing volume					

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

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

5,743 ft (MD)	to	12,208 ft (MD)	Hole Section Length:	6,465 ft
5,400 ft (TVD)	to	5,396 ft (TVD)	Casing Required:	6,615 ft
Estimated KOP:		4,883 ft (MD)	4,806 ft (TVD)	
Estimated Liner Top:		5,593 ft (MD)	5,355 ft (TVD)	
Estimated Landing Point (FTP):		5,643 ft (MD)	5,374 ft (TVD)	
Estimated Lateral Length:		6,565 ft (MD)		

Fluid:	Type	MW (ppg)	FL (mL/30')	PV (cp)	YP (lb/100 sqft)	pH	Comments	Comments
	WBM	8.7 - 9.0	NC	+20	±2	9-9.5	prod water	OBM as contingency

Hole Size: 6.125

Bit / Motor: 6-1/8" PDC bit 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

Liner/Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	4.500	11.6	P-110	BTC	7,560	10,690	367,000	385,000
Loading					2,666	8,809	222,199	222,199
Min. S.F.					2.84	1.21	1.65	1.73

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. Tension calculations assume vertical hole to approximate drag in lateral.

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Spacer	IntegraGuard Star	11		31.6		0	60 bbls	
Tail	G:POZ blend	13.3	1.560	7.70	30%	5,593	551	859

Displacement	158	est bbls						
Annular Capacity	0.1044	cuft/ft	4-1/2" casing x 7" casing annulus					
	0.09417	cuft/ft	4-1/2" casing x 6-1/8" hole annulus					
	0.0873	cuft/ft	4-1/2" casing vol est shoe jt ft 100					
	0.0102	bbls/ft	4" DP capacity					

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

	S-8 Silica Flour 163.7 lbs/bbl	Avis 616 viscosifier 11.6 lb/bbl	FP24 Defoamer .5 lb/bbl	IntegraGuard Star Plus 3K LCM 15 lb/bbl	SS201 Surfactant 1 gal/bbl			
Spacer								
Lead	ASTM Type I/II	BA90 Bonding Agent 5.0 lb/sx	Bentonite Viscosifier 8% BWOB	FL24 Fluid Loss .5% BWOB	IntegraGuard GW86 Viscosifier .1% BWOB	R7C Retarder .2% BWOB	FP24 Defoamer 0.3% BWOB, Anti-Static .01 lb/sx	
Tail	Type G 50%	Pozzolan Fly Ash Extender 50%	BA90 Bonding Agent 3.0 lb/sx	Bentonite Viscosifier 4% BWOB	FL24 Fluid Loss .4% BWOB	IntegraGuard GW86 Viscosifier .1% BWOB	R3 Retarder .5% BWOB	FP24 Defoamer .3% BWOB, IntegraSeal 0.25 lb/sx

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 6,465
Est Frac Inform: 27 Frac Stages 104,000 bbls slick water 8,410,000 lbs proppant
Frac: 39 plug-and-perf stages with 150,000 bbls slickwater fluid and 12,100,000 lbs of proppant (estimated)
Flowback: Flow back through production tubing as pressures allow
Production: Produce through production tubing via gas-lift into permanent production and storage facilities

ESTIMATED START DATES:

Drilling: 2/16/2024
Completion: 4/16/2024
Production: 5/31/2024

Prepared by: Greg Olson 1/25/2024
Updated: Greg Olson 2/12/2024

WELL NAME: NORTH ALAMITO UNIT 005H

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

API Number: 30-039-31428

AFE Number: Not yet assigned

ER Well Number: Not yet assigned

State: New Mexico

County: San Juan

Surface Elev.: 7,025 ft ASL (GL) 7,050 ft ASL (KB)

Surface Location: 17-23N-07W Sec-Twn- Rng 107 ft FSL 2,008 ft FWL

BH Location: 28-23N-07W Sec-Twn- Rng 155 ft FNL 510 ft FEL

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

South on US Hwy 550 for 39.0 miles to MM 112.7, Right (South) on CR #7900 / IR #7061 for 5.1 miles to Y (just passed 4-way), Left (East) leaving CR #7900 for 4.0 miles to lease road; Left (NorthEast) for 1.8 miles to new access; Right (North) for 1.5 miles to NAU N17-2307 pad entrance on left (from South to North): N Alamito 006H, 005H wells.

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	5,743 ft
KOP (MD)	4,883 ft
KOP (TVD)	4,806 ft
Target (TVD)	5,374 ft
Curve BUR	10 °/100 ft
POE (MD)	5,643 ft
TD (MD)	12,208 ft
Lat Len (ft)	6,565 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	17.500	350	9.625	36	K-55	STC	0	350
Intermediate	12.250	5,743	7	26.0	K-55	LTC	0	5,743
Production	8.500	12,208	4.500	11.6	P-110	BTC	0	12,208

CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE I-II	14.5	1.61	7.41	0.3132	50%	0	114
Inter. (Lead)	III:POZ Blend	12.5	2.14	12.05	0.1668	70%	0	503
	Type III	14.6	1.38	6.64	0.1503	20%	4,330	192
Prod. (Lead)	0	0	0.000	0	0.1044	0%	0	0
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.0873	30%	5,593	551

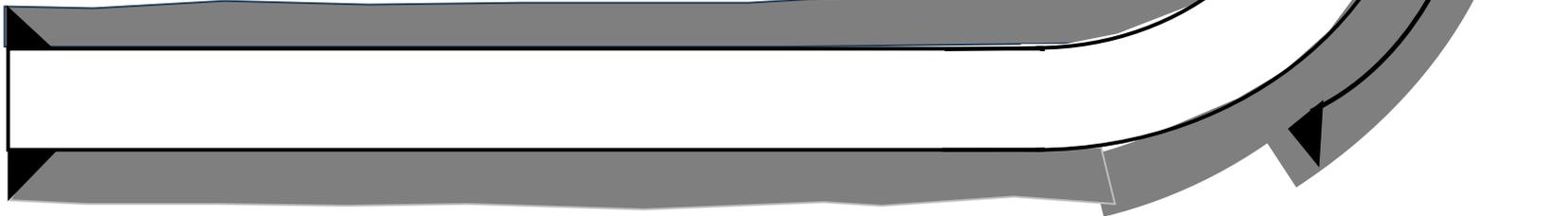
COMPLETION / PRODUCTION SUMMARY:

Frac: 39 plug-and-perf stages with 150,000 bbls slickwater fluid and 12,100,000 lbs of proppant (estimated)

Flowback: Flow back through production tubing as pressures allow

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

Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	1,175	1,175
Kirtland	1,297	1,298
Fruitland	1,477	1,482
Pictured Cliffs	1,795	1,808
Lewis	1,930	1,947
Chacra	2,200	2,224
Cliff House	3,276	3,326
Menefee	3,321	3,372
Point Lookout	4,133	4,205
Mancos	4,354	4,430
Gallup (MNCS_A)	4,683	4,760
MNCS_B	4,779	4,856
MNCS_C	4,874	4,951
MNCS_Cms	4,913	4,991
MNCS_D	5,044	5,129
MNCS_E	5,159	5,263
MNCS_F	5,206	5,326
MNCS_G	5,281	5,442
MNCS_H	5,334	5,546
MNCS_I	5,392	5,704
FTP TARGET	5,374	5,643
PROJECTED TD	5,396	12,208





Well: North Alamito Unit 005 H
Site: North Alamito Unit (05 & 06)
Project: Sandoval County, New Mexico NAD83 NM C
Design: rev0



Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone
System Datum: Mean Sea Level
Depth Reference: RKB=7025+25 @ 7050.00ft

Surface location:
 Northing: 1902154.602
 Easting: 1242285.116
 Latitude: 36.220102000
 Longitude: -107.599751000

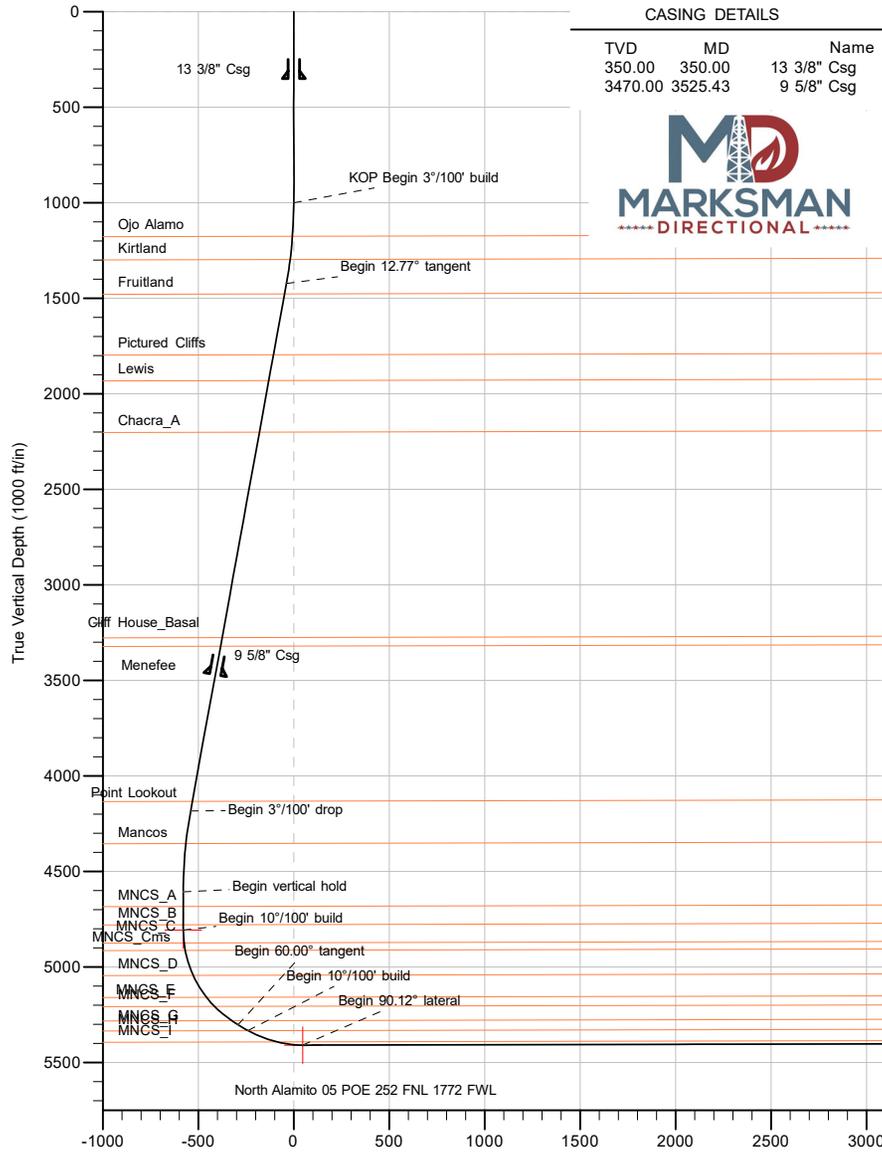
Magnetic Field:
 Strength: 49057.7nT
 Dip Angle: 62.71°
 Date: 1/9/2024
 Model: IGRF2020

Azimuths to Grid North:
 True North: 0.80°
 Magnetic North: 9.26°

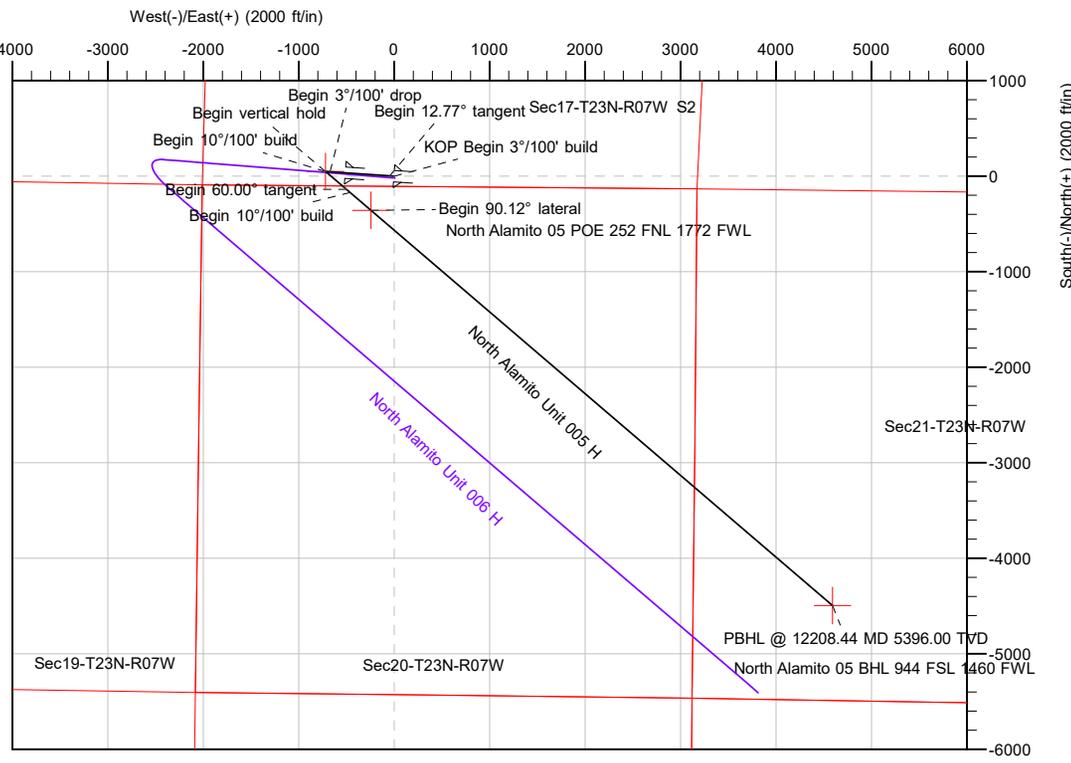
Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 9.26°

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
2	1000.00	0.00	0.000	1000.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3°/100' build
3	1425.56	12.77	273.943	1422.04	3.25	-47.10	3.00	273.94	-37.90	Begin 12.77° tangent
4	4257.52	12.77	273.943	4184.00	46.28	-671.44	0.00	0.00	-540.31	Begin 3°/100' drop
5	4683.08	0.00	130.545	4606.04	49.53	-718.54	3.00	180.00	-578.21	Begin vertical hold
6	4883.08	0.00	130.545	4806.04	49.53	-718.54	0.00	0.00	-578.21	Begin 10°/100' build
7	5483.08	60.00	130.545	5302.24	-136.70	-500.85	10.00	130.55	-291.73	Begin 60.00° tangent
8	5543.08	60.00	130.545	5332.24	-170.47	-461.36	0.00	0.00	-239.77	Begin 10°/100' build
9	5844.25	90.12	130.545	5409.00	-357.46	-242.78	10.00	0.00	-47.88	Begin 90.12° lateral
10	12208.44	90.12	130.545	5396.00	-4494.49	4593.30	0.00	0.00	6412.05	PBHL @ 12208.44 MD 5396.00 TVD

CASING DETAILS		
TVD	MD	Name
350.00	350.00	13 3/8" Csg
3470.00	3525.43	9 5/8" Csg

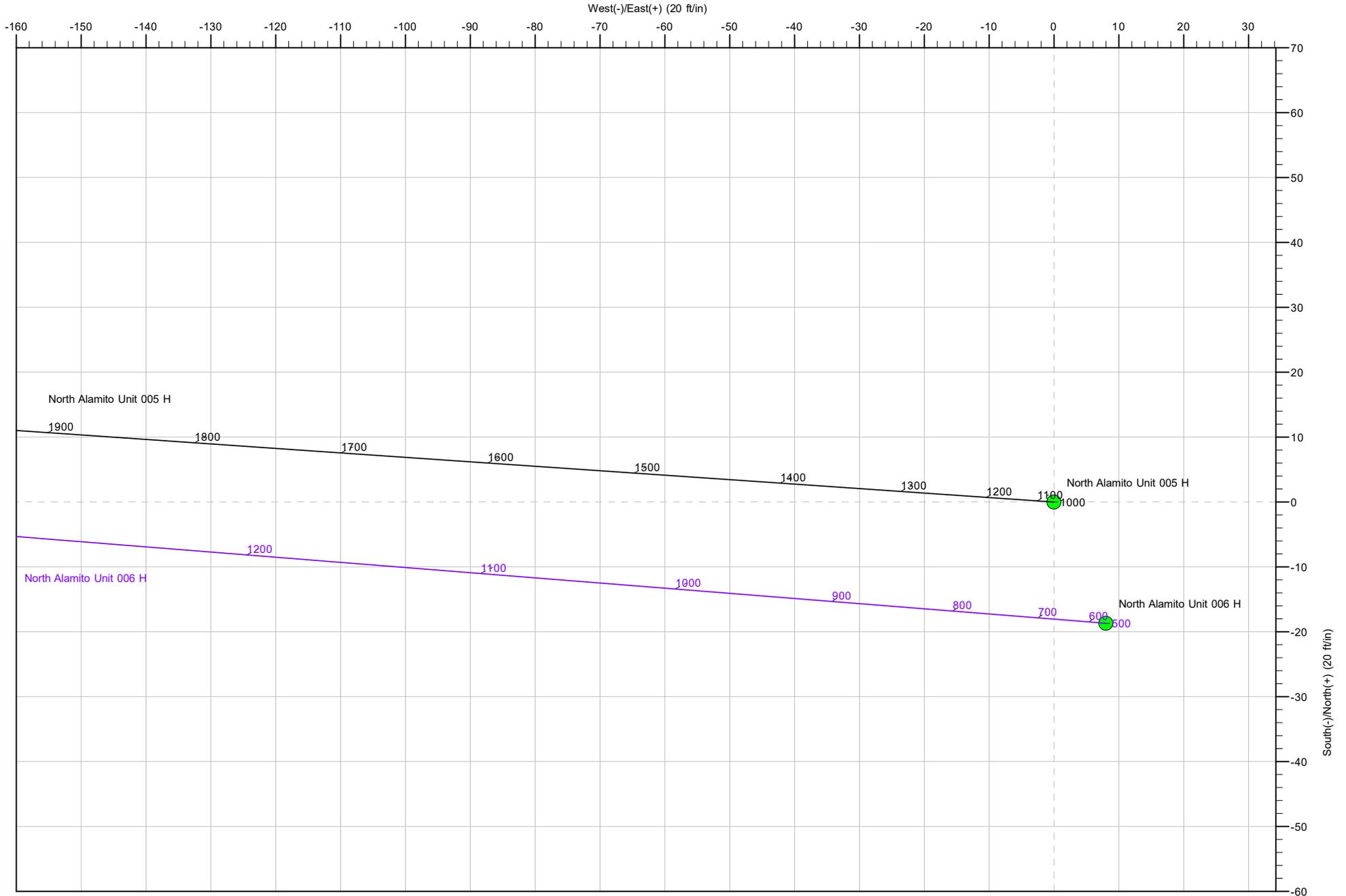


DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
North Alamito 05 BHL 944 FSL 1460 FWL	5396.00	-4494.49	4593.30	1897660.122	1246678.410	36.207933000	-107.583973000
North Alamito 05 POE 252 FNL 1772 FWL	5409.00	-357.46	-242.78	1901797.144	1242042.334	36.219111000	-107.600557000
North Alamito 05 vert	4806.04	49.53	-718.54	1902204.132	1241566.578	36.220210528	-107.602188730





Well: North Alamito Unit 005 H
 Site: North Alamito Unit (05 & 06)
 Project: Sandoval County, New Mexico NAD83 NM C
 Design: rev0
 Rig:





Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Company:	Enduring Resources LLC	TVD Reference:	RKB=7025+25 @ 7050.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=7025+25 @ 7050.00ft
Site:	North Alamito Unit (05 & 06)	North Reference:	Grid
Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Project	Sandoval County, New Mexico NAD83 NM C		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	North Alamito Unit (05 & 06)				
Site Position:		Northing:	1,902,154.601 usft	Latitude:	36.220102000
From:	Lat/Long	Easting:	1,242,285.116 usft	Longitude:	-107.599751000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	North Alamito Unit 005 H, Surf loc: 107 FSL 2008 FWL Section 17-T23N-R07W					
Well Position	+N/-S	0.00 ft	Northing:	1,902,154.601 usft	Latitude:	36.220102000
	+E/-W	0.00 ft	Easting:	1,242,285.116 usft	Longitude:	-107.599751000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	7,025.00 ft
Grid Convergence:		-0.80 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/9/2024	8.46	62.71	49,057.68658136

Design	rev0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	130.545

Plan Survey Tool Program	Date	1/10/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	12,208.44	rev0 (Original Hole)	MWD OWSG MWD - Standard



Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Company:	Enduring Resources LLC	TVD Reference:	RKB=7025+25 @ 7050.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=7025+25 @ 7050.00ft
Site:	North Alamito Unit (05 & 06)	North Reference:	Grid
Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,425.56	12.77	273.943	1,422.05	3.25	-47.10	3.00	3.00	0.00	273.94	
4,257.52	12.77	273.943	4,184.00	46.28	-671.44	0.00	0.00	0.00	0.00	
4,683.08	0.00	130.545	4,606.04	49.53	-718.54	3.00	-3.00	0.00	180.00	
4,883.08	0.00	130.545	4,806.04	49.53	-718.54	0.00	0.00	0.00	0.00	North Alamito 05 vert
5,483.08	60.00	130.545	5,302.24	-136.70	-500.85	10.00	10.00	0.00	130.55	
5,543.08	60.00	130.545	5,332.24	-170.47	-461.36	0.00	0.00	0.00	0.00	
5,844.25	90.12	130.545	5,409.00	-357.46	-242.78	10.00	10.00	0.00	0.00	
12,208.44	90.12	130.545	5,396.00	-4,494.49	4,593.30	0.00	0.00	0.00	0.00	North Alamito 05 BHL



Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Company:	Enduring Resources LLC	TVD Reference:	RKB=7025+25 @ 7050.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=7025+25 @ 7050.00ft
Site:	North Alamito Unit (05 & 06)	North Reference:	Grid
Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,100.00	3.00	273.943	1,099.95	0.18	-2.61	-2.10	3.00	3.00	0.00	
1,200.00	6.00	273.943	1,199.63	0.72	-10.44	-8.40	3.00	3.00	0.00	
1,300.00	9.00	273.943	1,298.77	1.62	-23.46	-18.88	3.00	3.00	0.00	
1,400.00	12.00	273.943	1,397.08	2.87	-41.64	-33.50	3.00	3.00	0.00	
1,425.56	12.77	273.943	1,422.05	3.25	-47.10	-37.90	3.00	3.00	0.00	
1,500.00	12.77	273.943	1,494.65	4.38	-63.52	-51.11	0.00	0.00	0.00	
1,600.00	12.77	273.943	1,592.17	5.90	-85.56	-68.85	0.00	0.00	0.00	
1,700.00	12.77	273.943	1,689.70	7.42	-107.61	-86.59	0.00	0.00	0.00	
1,800.00	12.77	273.943	1,787.23	8.94	-129.65	-104.33	0.00	0.00	0.00	
1,900.00	12.77	273.943	1,884.76	10.46	-151.70	-122.07	0.00	0.00	0.00	
2,000.00	12.77	273.943	1,982.29	11.98	-173.75	-139.81	0.00	0.00	0.00	
2,100.00	12.77	273.943	2,079.81	13.50	-195.79	-157.55	0.00	0.00	0.00	
2,200.00	12.77	273.943	2,177.34	15.02	-217.84	-175.29	0.00	0.00	0.00	
2,300.00	12.77	273.943	2,274.87	16.54	-239.88	-193.03	0.00	0.00	0.00	
2,400.00	12.77	273.943	2,372.40	18.06	-261.93	-210.78	0.00	0.00	0.00	
2,500.00	12.77	273.943	2,469.92	19.57	-283.97	-228.52	0.00	0.00	0.00	
2,600.00	12.77	273.943	2,567.45	21.09	-306.02	-246.26	0.00	0.00	0.00	
2,700.00	12.77	273.943	2,664.98	22.61	-328.07	-264.00	0.00	0.00	0.00	
2,800.00	12.77	273.943	2,762.51	24.13	-350.11	-281.74	0.00	0.00	0.00	
2,900.00	12.77	273.943	2,860.04	25.65	-372.16	-299.48	0.00	0.00	0.00	
3,000.00	12.77	273.943	2,957.56	27.17	-394.20	-317.22	0.00	0.00	0.00	
3,100.00	12.77	273.943	3,055.09	28.69	-416.25	-334.96	0.00	0.00	0.00	
3,200.00	12.77	273.943	3,152.62	30.21	-438.30	-352.70	0.00	0.00	0.00	
3,300.00	12.77	273.943	3,250.15	31.73	-460.34	-370.44	0.00	0.00	0.00	
3,400.00	12.77	273.943	3,347.67	33.25	-482.39	-388.18	0.00	0.00	0.00	
3,500.00	12.77	273.943	3,445.20	34.77	-504.43	-405.92	0.00	0.00	0.00	
3,600.00	12.77	273.943	3,542.73	36.29	-526.48	-423.66	0.00	0.00	0.00	
3,700.00	12.77	273.943	3,640.26	37.81	-548.53	-441.40	0.00	0.00	0.00	
3,800.00	12.77	273.943	3,737.79	39.33	-570.57	-459.14	0.00	0.00	0.00	
3,900.00	12.77	273.943	3,835.31	40.85	-592.62	-476.88	0.00	0.00	0.00	
4,000.00	12.77	273.943	3,932.84	42.37	-614.66	-494.62	0.00	0.00	0.00	
4,100.00	12.77	273.943	4,030.37	43.89	-636.71	-512.36	0.00	0.00	0.00	
4,200.00	12.77	273.943	4,127.90	45.41	-658.76	-530.10	0.00	0.00	0.00	
4,257.52	12.77	273.943	4,184.00	46.28	-671.44	-540.31	0.00	0.00	0.00	
4,300.00	11.49	273.943	4,225.53	46.90	-680.34	-547.47	3.00	-3.00	0.00	
4,400.00	8.49	273.943	4,324.00	48.09	-697.65	-561.40	3.00	-3.00	0.00	
4,500.00	5.49	273.943	4,423.24	48.93	-709.79	-571.17	3.00	-3.00	0.00	
4,600.00	2.49	273.943	4,522.99	49.41	-716.74	-576.76	3.00	-3.00	0.00	
4,683.08	0.00	130.545	4,606.04	49.53	-718.54	-578.21	3.00	-3.00	0.00	
4,700.00	0.00	0.000	4,622.96	49.53	-718.54	-578.21	0.00	0.00	0.00	
4,800.00	0.00	0.000	4,722.96	49.53	-718.54	-578.21	0.00	0.00	0.00	
4,883.08	0.00	130.545	4,806.04	49.53	-718.54	-578.21	0.00	0.00	0.00	
4,900.00	1.69	130.545	4,822.96	49.37	-718.35	-577.96	10.00	10.00	0.00	



Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Company:	Enduring Resources LLC	TVD Reference:	RKB=7025+25 @ 7050.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=7025+25 @ 7050.00ft
Site:	North Alamito Unit (05 & 06)	North Reference:	Grid
Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,950.00	6.69	130.545	4,872.81	46.99	-715.57	-574.31	10.00	10.00	0.00
5,000.00	11.69	130.545	4,922.15	41.80	-709.51	-566.32	10.00	10.00	0.00
5,050.00	16.69	130.545	4,970.61	33.84	-700.19	-554.07	10.00	10.00	0.00
5,100.00	21.69	130.545	5,017.82	23.15	-687.71	-537.64	10.00	10.00	0.00
5,150.00	26.69	130.545	5,063.41	9.84	-672.14	-517.15	10.00	10.00	0.00
5,200.00	31.69	130.545	5,107.05	-6.01	-653.62	-492.77	10.00	10.00	0.00
5,250.00	36.69	130.545	5,148.39	-24.27	-632.27	-464.68	10.00	10.00	0.00
5,300.00	41.69	130.545	5,187.13	-44.80	-608.27	-433.10	10.00	10.00	0.00
5,350.00	46.69	130.545	5,222.97	-67.45	-581.79	-398.26	10.00	10.00	0.00
5,400.00	51.69	130.545	5,255.64	-92.04	-553.04	-360.42	10.00	10.00	0.00
5,450.00	56.69	130.545	5,284.88	-118.39	-522.24	-319.89	10.00	10.00	0.00
5,483.08	60.00	130.545	5,302.24	-136.70	-500.85	-291.73	10.00	10.00	0.00
5,500.00	60.00	130.545	5,310.70	-146.22	-489.71	-277.08	0.00	0.00	0.00
5,543.08	60.00	130.545	5,332.24	-170.47	-461.36	-239.77	0.00	0.00	0.00
5,550.00	60.69	130.545	5,335.66	-174.38	-456.79	-233.76	10.00	10.00	0.00
5,600.00	65.69	130.545	5,358.20	-203.38	-422.89	-189.14	10.00	10.00	0.00
5,650.00	70.69	130.545	5,376.77	-233.55	-387.63	-142.74	10.00	10.00	0.00
5,700.00	75.69	130.545	5,391.23	-264.65	-351.27	-94.89	10.00	10.00	0.00
5,750.00	80.69	130.545	5,401.45	-296.46	-314.09	-45.96	10.00	10.00	0.00
5,800.00	85.69	130.545	5,407.38	-328.72	-276.37	3.67	10.00	10.00	0.00
5,844.25	90.12	130.545	5,409.00	-357.46	-242.78	47.88	10.00	10.00	0.00
5,900.00	90.12	130.545	5,408.88	-393.70	-200.41	103.63	0.00	0.00	0.00
6,000.00	90.12	130.545	5,408.68	-458.71	-124.43	203.63	0.00	0.00	0.00
6,100.00	90.12	130.545	5,408.47	-523.71	-48.44	303.63	0.00	0.00	0.00
6,200.00	90.12	130.545	5,408.27	-588.72	27.55	403.63	0.00	0.00	0.00
6,300.00	90.12	130.545	5,408.07	-653.72	103.54	503.63	0.00	0.00	0.00
6,400.00	90.12	130.545	5,407.86	-718.72	179.53	603.63	0.00	0.00	0.00
6,500.00	90.12	130.545	5,407.66	-783.73	255.52	703.63	0.00	0.00	0.00
6,600.00	90.12	130.545	5,407.45	-848.73	331.51	803.63	0.00	0.00	0.00
6,700.00	90.12	130.545	5,407.25	-913.74	407.50	903.63	0.00	0.00	0.00
6,800.00	90.12	130.545	5,407.04	-978.74	483.49	1,003.63	0.00	0.00	0.00
6,900.00	90.12	130.545	5,406.84	-1,043.75	559.48	1,103.63	0.00	0.00	0.00
7,000.00	90.12	130.545	5,406.64	-1,108.75	635.46	1,203.63	0.00	0.00	0.00
7,100.00	90.12	130.545	5,406.43	-1,173.76	711.45	1,303.63	0.00	0.00	0.00
7,200.00	90.12	130.545	5,406.23	-1,238.76	787.44	1,403.63	0.00	0.00	0.00
7,300.00	90.12	130.545	5,406.02	-1,303.77	863.43	1,503.63	0.00	0.00	0.00
7,400.00	90.12	130.545	5,405.82	-1,368.77	939.42	1,603.63	0.00	0.00	0.00
7,500.00	90.12	130.545	5,405.62	-1,433.78	1,015.41	1,703.63	0.00	0.00	0.00
7,600.00	90.12	130.545	5,405.41	-1,498.78	1,091.40	1,803.63	0.00	0.00	0.00
7,700.00	90.12	130.545	5,405.21	-1,563.79	1,167.39	1,903.63	0.00	0.00	0.00
7,800.00	90.12	130.545	5,405.00	-1,628.79	1,243.38	2,003.63	0.00	0.00	0.00
7,900.00	90.12	130.545	5,404.80	-1,693.80	1,319.37	2,103.63	0.00	0.00	0.00
8,000.00	90.12	130.545	5,404.59	-1,758.80	1,395.36	2,203.63	0.00	0.00	0.00
8,100.00	90.12	130.545	5,404.39	-1,823.81	1,471.34	2,303.62	0.00	0.00	0.00
8,200.00	90.12	130.545	5,404.19	-1,888.81	1,547.33	2,403.62	0.00	0.00	0.00
8,300.00	90.12	130.545	5,403.98	-1,953.82	1,623.32	2,503.62	0.00	0.00	0.00
8,400.00	90.12	130.545	5,403.78	-2,018.82	1,699.31	2,603.62	0.00	0.00	0.00
8,500.00	90.12	130.545	5,403.57	-2,083.83	1,775.30	2,703.62	0.00	0.00	0.00
8,600.00	90.12	130.545	5,403.37	-2,148.83	1,851.29	2,803.62	0.00	0.00	0.00
8,700.00	90.12	130.545	5,403.16	-2,213.84	1,927.28	2,903.62	0.00	0.00	0.00
8,800.00	90.12	130.545	5,402.96	-2,278.84	2,003.27	3,003.62	0.00	0.00	0.00
8,900.00	90.12	130.545	5,402.76	-2,343.85	2,079.26	3,103.62	0.00	0.00	0.00
9,000.00	90.12	130.545	5,402.55	-2,408.85	2,155.25	3,203.62	0.00	0.00	0.00
9,100.00	90.12	130.545	5,402.35	-2,473.86	2,231.23	3,303.62	0.00	0.00	0.00



Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Company:	Enduring Resources LLC	TVD Reference:	RKB=7025+25 @ 7050.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=7025+25 @ 7050.00ft
Site:	North Alamito Unit (05 & 06)	North Reference:	Grid
Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,200.00	90.12	130.545	5,402.14	-2,538.86	2,307.22	3,403.62	0.00	0.00	0.00	
9,300.00	90.12	130.545	5,401.94	-2,603.87	2,383.21	3,503.62	0.00	0.00	0.00	
9,400.00	90.12	130.545	5,401.74	-2,668.87	2,459.20	3,603.62	0.00	0.00	0.00	
9,500.00	90.12	130.545	5,401.53	-2,733.87	2,535.19	3,703.62	0.00	0.00	0.00	
9,600.00	90.12	130.545	5,401.33	-2,798.88	2,611.18	3,803.62	0.00	0.00	0.00	
9,700.00	90.12	130.545	5,401.12	-2,863.88	2,687.17	3,903.62	0.00	0.00	0.00	
9,800.00	90.12	130.545	5,400.92	-2,928.89	2,763.16	4,003.62	0.00	0.00	0.00	
9,900.00	90.12	130.545	5,400.71	-2,993.89	2,839.15	4,103.62	0.00	0.00	0.00	
10,000.00	90.12	130.545	5,400.51	-3,058.90	2,915.14	4,203.62	0.00	0.00	0.00	
10,100.00	90.12	130.545	5,400.31	-3,123.90	2,991.12	4,303.62	0.00	0.00	0.00	
10,200.00	90.12	130.545	5,400.10	-3,188.91	3,067.11	4,403.62	0.00	0.00	0.00	
10,300.00	90.12	130.545	5,399.90	-3,253.91	3,143.10	4,503.62	0.00	0.00	0.00	
10,400.00	90.12	130.545	5,399.69	-3,318.92	3,219.09	4,603.62	0.00	0.00	0.00	
10,500.00	90.12	130.545	5,399.49	-3,383.92	3,295.08	4,703.62	0.00	0.00	0.00	
10,600.00	90.12	130.545	5,399.28	-3,448.93	3,371.07	4,803.62	0.00	0.00	0.00	
10,700.00	90.12	130.545	5,399.08	-3,513.93	3,447.06	4,903.62	0.00	0.00	0.00	
10,800.00	90.12	130.545	5,398.88	-3,578.94	3,523.05	5,003.62	0.00	0.00	0.00	
10,900.00	90.12	130.545	5,398.67	-3,643.94	3,599.04	5,103.62	0.00	0.00	0.00	
11,000.00	90.12	130.545	5,398.47	-3,708.95	3,675.03	5,203.62	0.00	0.00	0.00	
11,100.00	90.12	130.545	5,398.26	-3,773.95	3,751.01	5,303.62	0.00	0.00	0.00	
11,200.00	90.12	130.545	5,398.06	-3,838.96	3,827.00	5,403.62	0.00	0.00	0.00	
11,300.00	90.12	130.545	5,397.86	-3,903.96	3,902.99	5,503.62	0.00	0.00	0.00	
11,400.00	90.12	130.545	5,397.65	-3,968.97	3,978.98	5,603.62	0.00	0.00	0.00	
11,500.00	90.12	130.545	5,397.45	-4,033.97	4,054.97	5,703.62	0.00	0.00	0.00	
11,600.00	90.12	130.545	5,397.24	-4,098.98	4,130.96	5,803.62	0.00	0.00	0.00	
11,700.00	90.12	130.545	5,397.04	-4,163.98	4,206.95	5,903.62	0.00	0.00	0.00	
11,800.00	90.12	130.545	5,396.83	-4,228.99	4,282.94	6,003.62	0.00	0.00	0.00	
11,900.00	90.12	130.545	5,396.63	-4,293.99	4,358.93	6,103.62	0.00	0.00	0.00	
12,000.00	90.12	130.545	5,396.43	-4,359.00	4,434.92	6,203.62	0.00	0.00	0.00	
12,100.00	90.12	130.545	5,396.22	-4,424.00	4,510.90	6,303.62	0.00	0.00	0.00	
12,208.44	90.12	130.545	5,396.00	-4,494.49	4,593.30	6,412.05	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
North Alamito 05 vert - hit/miss target - Shape - Point	0.00	360.000	4,806.04	49.53	-718.54	1,902,204.131	1,241,566.578	36.220210529	-107.602188730	
North Alamito 05 BHL 94 - plan hits target center - Point	0.00	360.000	5,396.00	-4,494.49	4,593.30	1,897,660.122	1,246,878.410	36.207933000	-107.583973000	
North Alamito 05 POE 2! - plan hits target center - Point	0.00	360.000	5,409.00	-357.46	-242.78	1,901,797.143	1,242,042.334	36.219111000	-107.600557000	



Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Company:	Enduring Resources LLC	TVD Reference:	RKB=7025+25 @ 7050.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=7025+25 @ 7050.00ft
Site:	North Alamito Unit (05 & 06)	North Reference:	Grid
Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
350.00	350.00	13 3/8" Csg	13-3/8	17-1/2	
3,525.43	3,470.00	9 5/8" Csg	9-5/8	12-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,175.26	1,175.01	Ojo Alamo		-0.12	130.545	
1,298.25	1,297.04	Kirtland		-0.12	130.545	
1,482.01	1,477.10	Fruitland		-0.12	130.545	
1,808.19	1,795.22	Pictured Cliffs		-0.12	130.545	
1,946.67	1,930.27	Lewis		-0.12	130.545	
2,223.62	2,200.38	Chacra_A		-0.12	130.545	
3,326.29	3,275.79	Cliff House_Basal		-0.12	130.545	
3,372.45	3,320.80	Menefee		-0.12	130.545	
4,205.35	4,133.11	Point Lookout		-0.12	130.545	
4,430.49	4,354.18	Mancos		-0.12	130.545	
4,760.25	4,683.21	MNCS_A		-0.12	130.545	
4,856.25	4,779.21	MNCS_B		-0.12	130.545	
4,951.40	4,874.20	MNCS_C		-0.12	130.545	
4,990.86	4,913.19	MNCS_Cms		-0.12	130.545	
5,128.58	5,044.10	MNCS_D		-0.12	130.545	
5,263.29	5,158.96	MNCS_E		-0.12	130.545	
5,325.61	5,205.87	MNCS_F		-0.12	130.545	
5,442.43	5,280.68	MNCS_G		-0.12	130.545	
5,545.61	5,333.50	MNCS_H		-0.12	130.545	
5,703.96	5,392.19	MNCS_I		-0.12	130.545	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build	
1,425.56	1,422.05	3.25	-47.10	Begin 12.77° tangent	
4,257.52	4,184.00	46.28	-671.44	Begin 3°/100' drop	
4,683.08	4,606.04	49.53	-718.54	Begin vertical hold	
4,883.08	4,806.04	49.53	-718.54	Begin 10°/100' build	
5,483.08	5,302.24	-136.70	-500.85	Begin 60.00° tangent	
5,543.08	5,332.24	-170.47	-461.36	Begin 10°/100' build	
5,844.25	5,409.00	-357.46	-242.78	Begin 90.12° lateral	
12,208.44	5,396.00	-4,494.49	4,593.30	PBHL @ 12208.44 MD 5396.00 TVD	



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Company:	Enduring Resources LLC	TVD Reference:	RKB=7025+25 @ 7050.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=7025+25 @ 7050.00ft
Site:	North Alamito Unit (05 & 06)	North Reference:	Grid
Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Project	Sandoval County, New Mexico NAD83 NM C		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	North Alamito Unit (05 & 06)				
Site Position:		Northing:	1,902,154.601 usft	Latitude:	36.220102000
From:	Lat/Long	Easting:	1,242,285.116 usft	Longitude:	-107.599751000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	North Alamito Unit 005 H, Surf loc: 107 FSL 2008 FWL Section 17-T23N-R07W					
Well Position	+N/-S	0.00 ft	Northing:	1,902,154.601 usft	Latitude:	36.220102000
	+E/-W	0.00 ft	Easting:	1,242,285.116 usft	Longitude:	-107.599751000
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:	7,025.00 ft
Grid Convergence:	-0.80 °					

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/9/2024	8.46	62.71	49,057.68658136

Design	rev0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	130.545

Plan Survey Tool Program	Date	1/10/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	12,208.44 rev0 (Original Hole)	MWD	OWSG MWD - Standard



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Company:	Enduring Resources LLC	TVD Reference:	RKB=7025+25 @ 7050.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=7025+25 @ 7050.00ft
Site:	North Alamito Unit (05 & 06)	North Reference:	Grid
Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,425.56	12.77	273.943	1,422.05	3.25	-47.10	3.00	3.00	0.00	273.94	
4,257.52	12.77	273.943	4,184.00	46.28	-671.44	0.00	0.00	0.00	0.00	
4,683.08	0.00	130.545	4,606.04	49.53	-718.54	3.00	-3.00	0.00	180.00	
4,883.08	0.00	130.545	4,806.04	49.53	-718.54	0.00	0.00	0.00	0.00	North Alamito 05 vert
5,483.08	60.00	130.545	5,302.24	-136.70	-500.85	10.00	10.00	0.00	130.55	
5,543.08	60.00	130.545	5,332.24	-170.47	-461.36	0.00	0.00	0.00	0.00	
5,844.25	90.12	130.545	5,409.00	-357.46	-242.78	10.00	10.00	0.00	0.00	
12,208.44	90.12	130.545	5,396.00	-4,494.49	4,593.30	0.00	0.00	0.00	0.00	North Alamito 05 BHL



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Company:	Enduring Resources LLC	TVD Reference:	RKB=7025+25 @ 7050.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=7025+25 @ 7050.00ft
Site:	North Alamito Unit (05 & 06)	North Reference:	Grid
Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.000	0.00	0.00	0.00	1,902,154.601	1,242,285.116	36.220102000	-107.599751000	
100.00	0.00	0.000	100.00	0.00	0.00	1,902,154.601	1,242,285.116	36.220102000	-107.599751000	
200.00	0.00	0.000	200.00	0.00	0.00	1,902,154.601	1,242,285.116	36.220102000	-107.599751000	
300.00	0.00	0.000	300.00	0.00	0.00	1,902,154.601	1,242,285.116	36.220102000	-107.599751000	
400.00	0.00	0.000	400.00	0.00	0.00	1,902,154.601	1,242,285.116	36.220102000	-107.599751000	
500.00	0.00	0.000	500.00	0.00	0.00	1,902,154.601	1,242,285.116	36.220102000	-107.599751000	
600.00	0.00	0.000	600.00	0.00	0.00	1,902,154.601	1,242,285.116	36.220102000	-107.599751000	
700.00	0.00	0.000	700.00	0.00	0.00	1,902,154.601	1,242,285.116	36.220102000	-107.599751000	
800.00	0.00	0.000	800.00	0.00	0.00	1,902,154.601	1,242,285.116	36.220102000	-107.599751000	
900.00	0.00	0.000	900.00	0.00	0.00	1,902,154.601	1,242,285.116	36.220102000	-107.599751000	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,902,154.601	1,242,285.116	36.220102000	-107.599751000	
1,100.00	3.00	273.943	1,099.95	0.18	-2.61	1,902,154.781	1,242,282.505	36.220102395	-107.599759859	
1,200.00	6.00	273.943	1,199.63	0.72	-10.44	1,902,155.321	1,242,274.679	36.220103577	-107.599786411	
1,300.00	9.00	273.943	1,298.77	1.62	-23.46	1,902,156.218	1,242,261.659	36.220105544	-107.599830584	
1,400.00	12.00	273.943	1,397.08	2.87	-41.64	1,902,157.471	1,242,243.480	36.220108290	-107.599892256	
1,425.56	12.77	273.943	1,422.05	3.25	-47.10	1,902,157.848	1,242,238.012	36.220109117	-107.599910806	
1,500.00	12.77	273.943	1,494.65	4.38	-63.52	1,902,158.980	1,242,221.601	36.220111596	-107.599966484	
1,600.00	12.77	273.943	1,592.17	5.90	-85.56	1,902,160.499	1,242,199.555	36.220114926	-107.600041277	
1,700.00	12.77	273.943	1,689.70	7.42	-107.61	1,902,162.019	1,242,177.509	36.220118257	-107.600116070	
1,800.00	12.77	273.943	1,787.23	8.94	-129.65	1,902,163.539	1,242,155.463	36.220121587	-107.600190864	
1,900.00	12.77	273.943	1,884.76	10.46	-151.70	1,902,165.058	1,242,133.418	36.220124917	-107.600265657	
2,000.00	12.77	273.943	1,982.29	11.98	-173.75	1,902,166.578	1,242,111.372	36.220128247	-107.600340450	
2,100.00	12.77	273.943	2,079.81	13.50	-195.79	1,902,168.097	1,242,089.326	36.220131578	-107.600415243	
2,200.00	12.77	273.943	2,177.34	15.02	-217.84	1,902,169.617	1,242,067.280	36.220134908	-107.600490037	
2,300.00	12.77	273.943	2,274.87	16.54	-239.88	1,902,171.137	1,242,045.234	36.220138238	-107.600564830	
2,400.00	12.77	273.943	2,372.40	18.06	-261.93	1,902,172.656	1,242,023.188	36.220141568	-107.600639623	
2,500.00	12.77	273.943	2,469.92	19.57	-283.97	1,902,174.176	1,242,001.142	36.220144898	-107.600714416	
2,600.00	12.77	273.943	2,567.45	21.09	-306.02	1,902,175.696	1,241,979.096	36.220148228	-107.600789210	
2,700.00	12.77	273.943	2,664.98	22.61	-328.07	1,902,177.215	1,241,957.051	36.220151558	-107.600864003	
2,800.00	12.77	273.943	2,762.51	24.13	-350.11	1,902,178.735	1,241,935.005	36.220154888	-107.600938796	
2,900.00	12.77	273.943	2,860.04	25.65	-372.16	1,902,180.255	1,241,912.959	36.220158217	-107.601013589	
3,000.00	12.77	273.943	2,957.56	27.17	-394.20	1,902,181.774	1,241,890.913	36.220161547	-107.601088383	
3,100.00	12.77	273.943	3,055.09	28.69	-416.25	1,902,183.294	1,241,868.867	36.220164877	-107.601163176	
3,200.00	12.77	273.943	3,152.62	30.21	-438.30	1,902,184.814	1,241,846.821	36.220168207	-107.601237969	
3,300.00	12.77	273.943	3,250.15	31.73	-460.34	1,902,186.333	1,241,824.775	36.220171536	-107.601312763	
3,400.00	12.77	273.943	3,347.67	33.25	-482.39	1,902,187.853	1,241,802.730	36.220174866	-107.601387556	
3,500.00	12.77	273.943	3,445.20	34.77	-504.43	1,902,189.373	1,241,780.684	36.220178195	-107.601462349	
3,600.00	12.77	273.943	3,542.73	36.29	-526.48	1,902,190.892	1,241,758.638	36.220181525	-107.601537143	
3,700.00	12.77	273.943	3,640.26	37.81	-548.53	1,902,192.412	1,241,736.592	36.220184854	-107.601611936	
3,800.00	12.77	273.943	3,737.79	39.33	-570.57	1,902,193.932	1,241,714.546	36.220188184	-107.601686729	
3,900.00	12.77	273.943	3,835.31	40.85	-592.62	1,902,195.451	1,241,692.500	36.220191513	-107.601761523	
4,000.00	12.77	273.943	3,932.84	42.37	-614.66	1,902,196.971	1,241,670.454	36.220194842	-107.601836316	
4,100.00	12.77	273.943	4,030.37	43.89	-636.71	1,902,198.491	1,241,648.409	36.220198172	-107.601911109	
4,200.00	12.77	273.943	4,127.90	45.41	-658.76	1,902,200.010	1,241,626.363	36.220201501	-107.601985903	
4,257.52	12.77	273.943	4,184.00	46.28	-671.44	1,902,200.884	1,241,613.682	36.220203416	-107.602028924	
4,300.00	11.49	273.943	4,225.53	46.90	-680.34	1,902,201.498	1,241,604.777	36.220204760	-107.602059134	
4,400.00	8.49	273.943	4,324.00	48.09	-697.65	1,902,202.691	1,241,587.469	36.220207374	-107.602117855	
4,500.00	5.49	273.943	4,423.24	48.93	-709.79	1,902,203.528	1,241,575.325	36.220209208	-107.602159053	
4,600.00	2.49	273.943	4,522.99	49.41	-716.74	1,902,204.007	1,241,568.380	36.220210257	-107.602182615	
4,683.08	0.00	130.545	4,606.04	49.53	-718.54	1,902,204.131	1,241,566.578	36.220210529	-107.602188730	
4,700.00	0.00	0.000	4,622.96	49.53	-718.54	1,902,204.131	1,241,566.578	36.220210529	-107.602188730	
4,800.00	0.00	0.000	4,722.96	49.53	-718.54	1,902,204.131	1,241,566.578	36.220210529	-107.602188730	
4,883.08	0.00	130.545	4,806.04	49.53	-718.54	1,902,204.131	1,241,566.578	36.220210529	-107.602188730	
4,900.00	1.69	130.545	4,822.96	49.37	-718.35	1,902,203.969	1,241,566.768	36.220210090	-107.602188079	
4,950.00	6.69	130.545	4,872.81	46.99	-715.57	1,902,201.594	1,241,569.544	36.220203673	-107.602178555	



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Company:	Enduring Resources LLC	TVD Reference:	RKB=7025+25 @ 7050.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=7025+25 @ 7050.00ft
Site:	North Alamito Unit (05 & 06)	North Reference:	Grid
Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,000.00	11.69	130.545	4,922.15	41.80	-709.51	1,902,196.403	1,241,575.612	36.220189650	-107.602157745	
5,050.00	16.69	130.545	4,970.61	33.84	-700.19	1,902,188.437	1,241,584.924	36.220168129	-107.602125805	
5,100.00	21.69	130.545	5,017.82	23.15	-687.71	1,902,177.755	1,241,597.411	36.220139272	-107.602082980	
5,150.00	26.69	130.545	5,063.41	9.84	-672.14	1,902,164.440	1,241,612.976	36.220103299	-107.602029594	
5,200.00	31.69	130.545	5,107.05	-6.01	-653.62	1,902,148.592	1,241,631.501	36.220060485	-107.601966055	
5,250.00	36.69	130.545	5,148.39	-24.27	-632.27	1,902,130.333	1,241,652.847	36.220011155	-107.601892846	
5,300.00	41.69	130.545	5,187.13	-44.80	-608.27	1,902,109.800	1,241,676.849	36.219955684	-107.601810524	
5,350.00	46.69	130.545	5,222.97	-67.45	-581.79	1,902,087.151	1,241,703.325	36.219894495	-107.601719716	
5,400.00	51.69	130.545	5,255.64	-92.04	-553.04	1,902,062.558	1,241,732.074	36.219828053	-107.601621113	
5,450.00	56.69	130.545	5,284.88	-118.39	-522.24	1,902,036.207	1,241,762.877	36.219756863	-107.601515465	
5,483.08	60.00	130.545	5,302.24	-136.70	-500.85	1,902,017.906	1,241,784.270	36.219707422	-107.601442091	
5,500.00	60.00	130.545	5,310.70	-146.22	-489.71	1,902,008.380	1,241,795.407	36.219681685	-107.601403896	
5,543.08	60.00	130.545	5,332.24	-170.47	-461.36	1,901,984.129	1,241,823.755	36.219616168	-107.601306667	
5,550.00	60.69	130.545	5,335.66	-174.38	-456.79	1,901,980.218	1,241,828.327	36.219605603	-107.601290989	
5,600.00	65.69	130.545	5,358.20	-203.38	-422.89	1,901,951.218	1,241,862.227	36.219527256	-107.601174719	
5,650.00	70.69	130.545	5,376.77	-233.55	-387.63	1,901,921.051	1,241,897.491	36.219445756	-107.601053772	
5,700.00	75.69	130.545	5,391.23	-264.65	-351.27	1,901,889.947	1,241,933.851	36.219361724	-107.600929067	
5,750.00	80.69	130.545	5,401.45	-296.46	-314.09	1,901,858.143	1,241,971.030	36.219275800	-107.600801554	
5,800.00	85.69	130.545	5,407.38	-328.72	-276.37	1,901,825.880	1,242,008.745	36.219188637	-107.600672203	
5,844.25	90.12	130.545	5,409.00	-357.46	-242.78	1,901,797.143	1,242,042.337	36.219111000	-107.600556990	
5,900.00	90.12	130.545	5,408.88	-393.70	-200.41	1,901,760.901	1,242,084.703	36.219013088	-107.600411689	
6,000.00	90.12	130.545	5,408.68	-458.71	-124.43	1,901,695.897	1,242,160.691	36.218837467	-107.600151070	
6,100.00	90.12	130.545	5,408.47	-523.71	-48.44	1,901,630.892	1,242,236.680	36.218661846	-107.599890453	
6,200.00	90.12	130.545	5,408.27	-588.72	27.55	1,901,565.887	1,242,312.669	36.218486224	-107.599629836	
6,300.00	90.12	130.545	5,408.07	-653.72	103.54	1,901,500.883	1,242,388.658	36.218310601	-107.599369221	
6,400.00	90.12	130.545	5,407.86	-718.72	179.53	1,901,435.878	1,242,464.647	36.218134978	-107.599108607	
6,500.00	90.12	130.545	5,407.66	-783.73	255.52	1,901,370.873	1,242,540.636	36.217959354	-107.598847994	
6,600.00	90.12	130.545	5,407.45	-848.73	331.51	1,901,305.868	1,242,616.625	36.217783730	-107.598587382	
6,700.00	90.12	130.545	5,407.25	-913.74	407.50	1,901,240.864	1,242,692.613	36.217608105	-107.598326772	
6,800.00	90.12	130.545	5,407.04	-978.74	483.49	1,901,175.859	1,242,768.602	36.217432480	-107.598066162	
6,900.00	90.12	130.545	5,406.84	-1,043.75	559.48	1,901,110.854	1,242,844.591	36.217256854	-107.597805554	
7,000.00	90.12	130.545	5,406.64	-1,108.75	635.46	1,901,045.850	1,242,920.580	36.217081227	-107.597544947	
7,100.00	90.12	130.545	5,406.43	-1,173.76	711.45	1,900,980.845	1,242,996.569	36.216905600	-107.597284341	
7,200.00	90.12	130.545	5,406.23	-1,238.76	787.44	1,900,915.840	1,243,072.558	36.216729972	-107.597023736	
7,300.00	90.12	130.545	5,406.02	-1,303.77	863.43	1,900,850.836	1,243,148.547	36.216554343	-107.596763133	
7,400.00	90.12	130.545	5,405.82	-1,368.77	939.42	1,900,785.831	1,243,224.535	36.216378714	-107.596502530	
7,500.00	90.12	130.545	5,405.62	-1,433.78	1,015.41	1,900,720.826	1,243,300.524	36.216203085	-107.596241929	
7,600.00	90.12	130.545	5,405.41	-1,498.78	1,091.40	1,900,655.821	1,243,376.513	36.216027454	-107.595981329	
7,700.00	90.12	130.545	5,405.21	-1,563.79	1,167.39	1,900,590.817	1,243,452.502	36.215851824	-107.595720730	
7,800.00	90.12	130.545	5,405.00	-1,628.79	1,243.38	1,900,525.812	1,243,528.491	36.215676192	-107.595460132	
7,900.00	90.12	130.545	5,404.80	-1,693.80	1,319.37	1,900,460.807	1,243,604.480	36.215500560	-107.595199536	
8,000.00	90.12	130.545	5,404.59	-1,758.80	1,395.36	1,900,395.803	1,243,680.469	36.215324927	-107.594938940	
8,100.00	90.12	130.545	5,404.39	-1,823.81	1,471.34	1,900,330.798	1,243,756.457	36.215149294	-107.594678346	
8,200.00	90.12	130.545	5,404.19	-1,888.81	1,547.33	1,900,265.793	1,243,832.446	36.214973660	-107.594417753	
8,300.00	90.12	130.545	5,403.98	-1,953.82	1,623.32	1,900,200.789	1,243,908.435	36.214798026	-107.594157161	
8,400.00	90.12	130.545	5,403.78	-2,018.82	1,699.31	1,900,135.784	1,243,984.424	36.214622391	-107.593896570	
8,500.00	90.12	130.545	5,403.57	-2,083.83	1,775.30	1,900,070.779	1,244,060.413	36.214446755	-107.593635980	
8,600.00	90.12	130.545	5,403.37	-2,148.83	1,851.29	1,900,005.774	1,244,136.402	36.214271119	-107.593375392	
8,700.00	90.12	130.545	5,403.16	-2,213.84	1,927.28	1,899,940.770	1,244,212.391	36.214095482	-107.593114804	
8,800.00	90.12	130.545	5,402.96	-2,278.84	2,003.27	1,899,875.765	1,244,288.379	36.213919845	-107.592854218	
8,900.00	90.12	130.545	5,402.76	-2,343.85	2,079.26	1,899,810.760	1,244,364.368	36.213744207	-107.592593633	
9,000.00	90.12	130.545	5,402.55	-2,408.85	2,155.25	1,899,745.756	1,244,440.357	36.213568568	-107.592333049	
9,100.00	90.12	130.545	5,402.35	-2,473.86	2,231.23	1,899,680.751	1,244,516.346	36.213392929	-107.592072466	
9,200.00	90.12	130.545	5,402.14	-2,538.86	2,307.22	1,899,615.746	1,244,592.335	36.213217289	-107.591811885	
9,300.00	90.12	130.545	5,401.94	-2,603.87	2,383.21	1,899,550.742	1,244,668.324	36.213041649	-107.591551304	



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Company:	Enduring Resources LLC	TVD Reference:	RKB=7025+25 @ 7050.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=7025+25 @ 7050.00ft
Site:	North Alamito Unit (05 & 06)	North Reference:	Grid
Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
9,400.00	90.12	130.545	5,401.74	-2,668.87	2,459.20	1,899,485.737	1,244,744.313	36.212866008	-107.591290725	
9,500.00	90.12	130.545	5,401.53	-2,733.87	2,535.19	1,899,420.732	1,244,820.301	36.212690366	-107.591030147	
9,600.00	90.12	130.545	5,401.33	-2,798.88	2,611.18	1,899,355.727	1,244,896.290	36.212514724	-107.590769570	
9,700.00	90.12	130.545	5,401.12	-2,863.88	2,687.17	1,899,290.723	1,244,972.279	36.212339081	-107.590508994	
9,800.00	90.12	130.545	5,400.92	-2,928.89	2,763.16	1,899,225.718	1,245,048.268	36.212163438	-107.590248420	
9,900.00	90.12	130.545	5,400.71	-2,993.89	2,839.15	1,899,160.713	1,245,124.257	36.211987794	-107.589987846	
10,000.00	90.12	130.545	5,400.51	-3,058.90	2,915.14	1,899,095.709	1,245,200.246	36.211812149	-107.589727274	
10,100.00	90.12	130.545	5,400.31	-3,123.90	2,991.12	1,899,030.704	1,245,276.235	36.211636504	-107.589466703	
10,200.00	90.12	130.545	5,400.10	-3,188.91	3,067.11	1,898,965.699	1,245,352.223	36.211460858	-107.589206133	
10,300.00	90.12	130.545	5,399.90	-3,253.91	3,143.10	1,898,900.695	1,245,428.212	36.211285212	-107.588945564	
10,400.00	90.12	130.545	5,399.69	-3,318.92	3,219.09	1,898,835.690	1,245,504.201	36.211109565	-107.588684996	
10,500.00	90.12	130.545	5,399.49	-3,383.92	3,295.08	1,898,770.685	1,245,580.190	36.210933917	-107.588424430	
10,600.00	90.12	130.545	5,399.28	-3,448.93	3,371.07	1,898,705.680	1,245,656.179	36.210758269	-107.588163865	
10,700.00	90.12	130.545	5,399.08	-3,513.93	3,447.06	1,898,640.676	1,245,732.168	36.210582620	-107.587903300	
10,800.00	90.12	130.545	5,398.88	-3,578.94	3,523.05	1,898,575.671	1,245,808.157	36.210406971	-107.587642737	
10,900.00	90.12	130.545	5,398.67	-3,643.94	3,599.04	1,898,510.666	1,245,884.145	36.210231321	-107.587382176	
11,000.00	90.12	130.545	5,398.47	-3,708.95	3,675.03	1,898,445.662	1,245,960.134	36.210055670	-107.587121615	
11,100.00	90.12	130.545	5,398.26	-3,773.95	3,751.01	1,898,380.657	1,246,036.123	36.209880019	-107.586861055	
11,200.00	90.12	130.545	5,398.06	-3,838.96	3,827.00	1,898,315.652	1,246,112.112	36.209704367	-107.586600497	
11,300.00	90.12	130.545	5,397.86	-3,903.96	3,902.99	1,898,250.648	1,246,188.101	36.209528715	-107.586339940	
11,400.00	90.12	130.545	5,397.65	-3,968.97	3,978.98	1,898,185.643	1,246,264.090	36.209353062	-107.586079384	
11,500.00	90.12	130.545	5,397.45	-4,033.97	4,054.97	1,898,120.638	1,246,340.079	36.209177408	-107.585818829	
11,600.00	90.12	130.545	5,397.24	-4,098.98	4,130.96	1,898,055.633	1,246,416.067	36.209001754	-107.585558275	
11,700.00	90.12	130.545	5,397.04	-4,163.98	4,206.95	1,897,990.629	1,246,492.056	36.208826100	-107.585297723	
11,800.00	90.12	130.545	5,396.83	-4,228.99	4,282.94	1,897,925.624	1,246,568.045	36.208650444	-107.585037171	
11,900.00	90.12	130.545	5,396.63	-4,293.99	4,358.93	1,897,860.619	1,246,644.034	36.208474788	-107.584776621	
12,000.00	90.12	130.545	5,396.43	-4,359.00	4,434.92	1,897,795.615	1,246,720.023	36.208299132	-107.584516072	
12,100.00	90.12	130.545	5,396.22	-4,424.00	4,510.90	1,897,730.610	1,246,796.012	36.208123475	-107.584255524	
12,208.44	90.12	130.545	5,396.00	-4,494.49	4,593.30	1,897,660.122	1,246,878.410	36.207933000	-107.583973000	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
North Alamito 05 vert - hit/miss target - Shape - Point	0.00	360.000	4,806.04	49.53	-718.54	1,902,204.131	1,241,566.578	36.220210529	-107.602188730	
North Alamito 05 BHL 94 - plan hits target center - Point	0.00	360.000	5,396.00	-4,494.49	4,593.30	1,897,660.122	1,246,878.410	36.207933000	-107.583973000	
North Alamito 05 POE 2! - plan hits target center - Point	0.00	360.000	5,409.00	-357.46	-242.78	1,901,797.143	1,242,042.334	36.219111000	-107.600557000	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
350.00	350.00	13 3/8" Csg	13-3/8	17-1/2		
3,525.43	3,470.00	9 5/8" Csg	9-5/8	12-1/4		



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Company:	Enduring Resources LLC	TVD Reference:	RKB=7025+25 @ 7050.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=7025+25 @ 7050.00ft
Site:	North Alamito Unit (05 & 06)	North Reference:	Grid
Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,175.26	1,175.01	Ojo Alamo		-0.12	130.545	
1,298.25	1,297.04	Kirtland		-0.12	130.545	
1,482.01	1,477.10	Fruitland		-0.12	130.545	
1,808.19	1,795.22	Pictured Cliffs		-0.12	130.545	
1,946.67	1,930.27	Lewis		-0.12	130.545	
2,223.62	2,200.38	Chacra_A		-0.12	130.545	
3,326.29	3,275.79	Cliff House_Basal		-0.12	130.545	
3,372.45	3,320.80	Menefee		-0.12	130.545	
4,205.35	4,133.11	Point Lookout		-0.12	130.545	
4,430.49	4,354.18	Mancos		-0.12	130.545	
4,760.25	4,683.21	MNCS_A		-0.12	130.545	
4,856.25	4,779.21	MNCS_B		-0.12	130.545	
4,951.40	4,874.20	MNCS_C		-0.12	130.545	
4,990.86	4,913.19	MNCS_Cms		-0.12	130.545	
5,128.58	5,044.10	MNCS_D		-0.12	130.545	
5,263.29	5,158.96	MNCS_E		-0.12	130.545	
5,325.61	5,205.87	MNCS_F		-0.12	130.545	
5,442.43	5,280.68	MNCS_G		-0.12	130.545	
5,545.61	5,333.50	MNCS_H		-0.12	130.545	
5,703.96	5,392.19	MNCS_I		-0.12	130.545	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build	
1,425.56	1,422.05	3.25	-47.10	Begin 12.77° tangent	
4,257.52	4,184.00	46.28	-671.44	Begin 3°/100' drop	
4,683.08	4,606.04	49.53	-718.54	Begin vertical hold	
4,883.08	4,806.04	49.53	-718.54	Begin 10°/100' build	
5,483.08	5,302.24	-136.70	-500.85	Begin 60.00° tangent	
5,543.08	5,332.24	-170.47	-461.36	Begin 10°/100' build	
5,844.25	5,409.00	-357.46	-242.78	Begin 90.12° lateral	
12,208.44	5,396.00	-4,494.49	4,593.30	PBHL @ 12208.44 MD 5396.00 TVD	



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=7025+25 @ 7050.00ft
Reference Site:	North Alamito Unit (05 & 06)	MD Reference:	RKB=7025+25 @ 7050.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference	rev0		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISWCSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,420.84ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	1/10/2024		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	12,208.44	rev0 (Original Hole)	MWD	OWSG MWD - Standard

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
North Alamito Unit (05 & 06)						
North Alamito Unit 006 H - Original Hole - rev0	689.82	690.14	17.99	13.50	4.008	CC
North Alamito Unit 006 H - Original Hole - rev0	700.00	700.26	18.02	13.46	3.951	ES
North Alamito Unit 006 H - Original Hole - rev0	12,208.44	14,323.67	1,200.32	840.93	3.340	SF

Offset Design: North Alamito Unit (05 & 06) - North Alamito Unit 006 H - Original Hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	156.81	-18.68	8.00	20.32					
100.00	100.00	100.00	100.00	0.13	0.13	156.81	-18.68	8.00	20.32	20.05	0.27	75.590		
200.00	200.00	200.00	200.00	0.49	0.49	156.81	-18.68	8.00	20.32	19.34	0.99	20.615		
300.00	300.00	300.00	300.00	0.85	0.85	156.81	-18.68	8.00	20.32	18.62	1.70	11.935		
400.00	400.00	400.00	400.00	1.21	1.21	156.81	-18.68	8.00	20.32	17.90	2.42	8.399		
500.00	500.00	500.00	500.00	1.57	1.57	156.81	-18.68	8.00	20.32	17.19	3.14	6.479		
600.00	600.00	600.41	600.36	1.93	1.92	163.79	-18.47	5.37	19.24	15.39	3.85	5.000		
689.82	689.82	690.14	689.82	2.25	2.24	-175.45	-17.93	-1.43	17.99	13.50	4.49	4.008	CC	
700.00	700.00	700.26	699.89	2.29	2.28	-172.17	-17.85	-2.46	18.02	13.46	4.56	3.951	ES	
800.00	800.00	799.03	797.81	2.64	2.64	-137.75	-16.83	-15.29	22.84	17.57	5.27	4.337		
900.00	900.00	896.21	893.37	3.00	3.04	-115.19	-15.43	-32.82	36.87	30.93	5.94	6.209		
1,000.00	1,000.00	991.35	985.95	3.36	3.46	-104.07	-13.70	-54.66	58.07	51.49	6.59	8.819		
1,100.00	1,099.95	1,084.78	1,075.69	3.71	3.92	-12.38	-11.64	-80.55	82.48	75.28	7.20	11.454		
1,200.00	1,199.63	1,177.13	1,163.04	4.06	4.44	-9.34	-9.26	-110.41	106.93	99.14	7.79	13.725		
1,300.00	1,298.77	1,268.46	1,247.89	4.42	5.02	-7.44	-6.59	-144.04	131.14	122.77	8.37	15.670		
1,400.00	1,397.08	1,358.81	1,330.15	4.80	5.66	-6.13	-3.63	-181.26	154.97	146.02	8.95	17.322		
1,500.00	1,494.65	1,447.89	1,409.45	5.21	6.36	-5.19	-0.41	-221.71	179.74	170.22	9.52	18.883		
1,600.00	1,592.17	1,534.75	1,484.86	5.64	7.13	-4.39	3.01	-264.66	208.80	198.71	10.09	20.693		
1,700.00	1,689.70	1,619.07	1,556.12	6.08	7.94	-3.73	6.58	-309.58	242.15	231.50	10.65	22.747		
1,800.00	1,787.23	1,704.33	1,626.22	6.53	8.83	-3.15	10.43	-357.97	279.38	268.12	11.26	24.803		
1,900.00	1,884.76	1,796.72	1,701.65	6.99	9.85	-2.67	14.66	-411.14	317.58	305.53	12.05	26.362		
2,000.00	1,982.29	1,889.11	1,777.09	7.46	10.89	-2.28	18.89	-464.31	355.78	342.94	12.84	27.705		
2,100.00	2,079.81	1,981.50	1,852.53	7.94	11.94	-1.97	23.12	-517.48	394.00	380.36	13.65	28.873		
2,200.00	2,177.34	2,073.89	1,927.96	8.42	13.01	-1.72	27.35	-570.66	432.23	417.77	14.46	29.895		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=7025+25 @ 7050.00ft
Reference Site:	North Alamito Unit (05 & 06)	MD Reference:	RKB=7025+25 @ 7050.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: North Alamito Unit (05 & 06) - North Alamito Unit 006 H - Original Hole - rev0													Offset Site Error:	0.00 ft		
Survey Program: 0-MWD													Rule Assigned:		Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning			
		Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)						
2,300.00	2,274.87	2,166.28	2,003.40	8.90	14.08	-1.50	31.58	-623.83	470.46	455.19	15.28	30.798				
2,400.00	2,372.40	2,258.67	2,078.83	9.39	15.16	-1.32	35.81	-677.00	508.70	492.60	16.10	31.598				
2,500.00	2,469.92	2,351.06	2,154.27	9.88	16.25	-1.16	40.04	-730.17	546.94	530.02	16.93	32.313				
2,600.00	2,567.45	2,443.45	2,229.71	10.37	17.34	-1.03	44.27	-783.34	585.19	567.43	17.76	32.953				
2,700.00	2,664.98	2,535.84	2,305.14	10.87	18.43	-0.91	48.50	-836.52	623.44	604.84	18.59	33.530				
2,800.00	2,762.51	2,628.23	2,380.58	11.36	19.53	-0.80	52.73	-889.69	661.69	642.26	19.43	34.053				
2,900.00	2,860.04	2,720.62	2,456.02	11.86	20.63	-0.71	56.96	-942.86	699.94	679.67	20.27	34.528				
3,000.00	2,957.56	2,813.01	2,531.45	12.36	21.73	-0.63	61.19	-996.03	738.19	717.08	21.11	34.962				
3,100.00	3,055.09	2,905.39	2,606.89	12.86	22.83	-0.55	65.42	-1,049.20	776.44	754.49	21.96	35.359				
3,200.00	3,152.62	2,997.78	2,682.32	13.37	23.94	-0.48	69.65	-1,102.38	814.70	791.89	22.81	35.724				
3,300.00	3,250.15	3,090.17	2,757.76	13.87	25.05	-0.42	73.88	-1,155.55	852.95	829.30	23.65	36.061				
3,400.00	3,347.67	3,182.56	2,833.20	14.38	26.16	-0.36	78.10	-1,208.72	891.21	866.71	24.50	36.372				
3,500.00	3,445.20	3,274.95	2,908.63	14.88	27.26	-0.31	82.33	-1,261.89	929.47	904.11	25.35	36.660				
3,600.00	3,542.73	3,367.34	2,984.07	15.39	28.37	-0.26	86.56	-1,315.06	967.73	941.52	26.21	36.928				
3,700.00	3,640.26	3,459.73	3,059.51	15.90	29.49	-0.22	90.79	-1,368.24	1,005.99	978.93	27.06	37.177				
3,800.00	3,737.79	3,552.12	3,134.94	16.40	30.60	-0.18	95.02	-1,421.41	1,044.24	1,016.33	27.91	37.410				
3,900.00	3,835.31	3,644.51	3,210.38	16.91	31.71	-0.14	99.25	-1,474.58	1,082.50	1,053.74	28.77	37.628				
4,000.00	3,932.84	3,736.90	3,285.81	17.42	32.82	-0.10	103.48	-1,527.75	1,120.76	1,091.14	29.62	37.832				
4,100.00	4,030.37	3,829.29	3,361.25	17.93	33.94	-0.07	107.71	-1,580.92	1,159.02	1,128.54	30.48	38.024				
4,200.00	4,127.90	3,921.68	3,436.69	18.44	35.05	-0.04	111.94	-1,634.10	1,197.28	1,165.95	31.34	38.205				
4,300.00	4,225.53	4,013.88	3,511.97	18.94	36.16	-0.01	116.16	-1,687.16	1,235.98	1,203.78	32.20	38.390				
4,400.00	4,324.00	4,104.30	3,585.80	19.40	37.25	0.02	120.30	-1,739.20	1,278.66	1,245.63	33.03	38.708				
4,500.00	4,423.24	4,192.36	3,657.70	19.81	38.32	0.05	124.33	-1,789.88	1,326.02	1,292.18	33.84	39.181				
4,600.00	4,522.99	4,277.82	3,727.48	20.16	39.35	0.07	128.25	-1,839.07	1,377.92	1,343.30	34.62	39.799				
4,800.00	4,722.96	7,335.86	5,396.10	20.73	58.05	-139.57	-864.09	-1,496.88	1,376.09	1,314.79	61.31	22.445				
4,900.00	4,822.96	7,335.75	5,396.10	21.00	58.05	90.71	-864.02	-1,496.97	1,330.04	1,266.31	63.73	20.870				
5,000.00	4,922.15	7,347.04	5,396.06	21.20	58.14	94.49	-871.36	-1,488.39	1,290.39	1,224.23	66.16	19.505				
5,100.00	5,017.82	7,375.38	5,395.96	21.33	58.39	96.58	-889.78	-1,466.85	1,258.38	1,189.85	68.53	18.362				
5,200.00	5,107.05	7,419.92	5,395.80	21.41	58.78	97.16	-918.73	-1,433.01	1,234.46	1,163.68	70.79	17.439				
5,300.00	5,187.13	7,479.31	5,395.58	21.45	59.34	96.56	-957.34	-1,387.88	1,218.18	1,145.27	72.91	16.707				
5,400.00	5,255.64	7,551.74	5,395.32	21.50	60.07	95.20	-1,004.42	-1,332.84	1,208.31	1,133.35	74.97	16.118				
5,500.00	5,310.70	7,634.89	5,395.02	21.58	60.95	93.47	-1,058.47	-1,269.66	1,203.17	1,126.14	77.02	15.621				
5,600.00	5,358.20	7,722.65	5,394.71	21.78	61.95	91.58	-1,115.51	-1,202.96	1,200.76	1,121.58	79.18	15.164				
5,700.00	5,391.23	7,816.78	5,394.37	22.15	63.09	90.14	-1,176.71	-1,131.43	1,200.21	1,118.72	81.49	14.729				
5,713.64	5,394.44	7,830.03	5,394.32	22.22	63.26	89.99	-1,185.32	-1,121.36	1,200.21	1,118.38	81.82	14.669				
5,800.00	5,407.38	7,915.28	5,394.02	22.74	64.36	89.36	-1,240.73	-1,056.58	1,200.28	1,116.32	83.96	14.297				
5,900.00	5,408.88	8,015.24	5,393.66	23.56	65.72	89.27	-1,305.71	-980.63	1,200.30	1,113.73	86.57	13.865				
6,000.00	5,408.68	8,115.24	5,393.30	24.63	67.15	89.27	-1,370.71	-904.64	1,200.30	1,110.88	89.41	13.424				
6,100.00	5,408.47	8,215.24	5,392.94	25.91	68.65	89.26	-1,435.71	-828.65	1,200.30	1,107.84	92.46	12.982				
6,200.00	5,408.27	8,315.24	5,392.58	27.34	70.21	89.25	-1,500.71	-752.66	1,200.30	1,104.62	95.68	12.545				
6,300.00	5,408.07	8,415.24	5,392.22	28.90	71.82	89.24	-1,565.72	-676.67	1,200.30	1,101.24	99.06	12.117				
6,400.00	5,407.86	8,515.24	5,391.86	30.57	73.49	89.24	-1,630.72	-600.68	1,200.30	1,097.73	102.57	11.702				
6,500.00	5,407.66	8,615.24	5,391.50	32.33	75.20	89.23	-1,695.72	-524.69	1,200.30	1,094.10	106.20	11.302				
6,600.00	5,407.45	8,715.24	5,391.14	34.16	76.96	89.22	-1,760.73	-448.70	1,200.30	1,090.37	109.92	10.919				
6,700.00	5,407.25	8,815.24	5,390.78	36.06	78.76	89.21	-1,825.73	-372.70	1,200.30	1,086.56	113.74	10.553				
6,800.00	5,407.04	8,915.24	5,390.43	38.00	80.59	89.21	-1,890.73	-296.71	1,200.30	1,082.67	117.63	10.204				
6,900.00	5,406.84	9,015.24	5,390.07	40.00	82.46	89.20	-1,955.73	-220.72	1,200.30	1,078.71	121.58	9.872				
7,000.00	5,406.64	9,115.24	5,389.71	42.03	84.36	89.19	-2,020.74	-144.73	1,200.30	1,074.70	125.60	9.557				
7,100.00	5,406.43	9,215.24	5,389.35	44.09	86.28	89.18	-2,085.74	-68.74	1,200.30	1,070.63	129.67	9.257				
7,200.00	5,406.23	9,315.24	5,388.99	46.18	88.24	89.18	-2,150.74	7.25	1,200.30	1,066.52	133.78	8.972				
7,300.00	5,406.02	9,415.24	5,388.63	48.29	90.21	89.17	-2,215.74	83.24	1,200.30	1,062.36	137.93	8.702				
7,400.00	5,405.82	9,515.24	5,388.27	50.43	92.21	89.16	-2,280.75	159.23	1,200.30	1,058.17	142.12	8.445				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=7025+25 @ 7050.00ft
Reference Site:	North Alamito Unit (05 & 06)	MD Reference:	RKB=7025+25 @ 7050.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: North Alamito Unit (05 & 06) - North Alamito Unit 006 H - Original Hole - rev0													Offset Site Error:	0.00 ft		
Survey Program: 0-MWD													Rule Assigned:		Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning			
		Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)						
7,494.81	5,405.63	9,610.05	5,387.93	52.48	94.12	89.16	-2,342.38	231.27	1,200.30	1,054.17	146.13	8.214				
7,500.00	5,405.62	9,615.24	5,387.91	52.59	94.23	89.15	-2,345.75	235.22	1,200.30	1,053.95	146.35	8.202				
7,600.00	5,405.41	9,715.24	5,387.55	54.76	96.27	89.15	-2,410.75	311.21	1,200.30	1,049.69	150.60	7.970				
7,700.00	5,405.21	9,815.24	5,387.19	56.95	98.32	89.14	-2,475.76	387.20	1,200.30	1,045.41	154.89	7.750				
7,800.00	5,405.00	9,915.24	5,386.83	59.15	100.39	89.13	-2,540.76	463.19	1,200.30	1,041.10	159.19	7.540				
7,900.00	5,404.80	10,015.24	5,386.47	61.36	102.47	89.13	-2,605.76	539.18	1,200.30	1,036.77	163.52	7.340				
8,000.00	5,404.59	10,115.24	5,386.12	63.59	104.57	89.12	-2,670.76	615.17	1,200.30	1,032.42	167.88	7.150				
8,100.00	5,404.39	10,215.24	5,385.76	65.82	106.68	89.11	-2,735.77	691.16	1,200.30	1,028.05	172.25	6.968				
8,200.00	5,404.19	10,315.24	5,385.40	68.06	108.80	89.10	-2,800.77	767.15	1,200.30	1,023.66	176.64	6.795				
8,300.00	5,403.98	10,415.23	5,385.04	70.31	110.94	89.10	-2,865.77	843.14	1,200.30	1,019.25	181.04	6.630				
8,400.00	5,403.78	10,515.23	5,384.68	72.57	113.08	89.09	-2,930.77	919.13	1,200.30	1,014.83	185.46	6.472				
8,500.00	5,403.57	10,615.23	5,384.32	74.83	115.23	89.08	-2,995.78	995.12	1,200.30	1,010.40	189.90	6.321				
8,600.00	5,403.37	10,715.23	5,383.96	77.10	117.40	89.07	-3,060.78	1,071.11	1,200.30	1,005.95	194.34	6.176				
8,700.00	5,403.16	10,815.23	5,383.60	79.37	119.57	89.07	-3,125.78	1,147.10	1,200.30	1,001.49	198.80	6.038				
8,800.00	5,402.96	10,915.23	5,383.24	81.65	121.74	89.06	-3,190.79	1,223.09	1,200.30	997.02	203.27	5.905				
8,900.00	5,402.76	11,015.23	5,382.88	83.94	123.93	89.05	-3,255.79	1,299.08	1,200.30	992.54	207.76	5.777				
9,000.00	5,402.55	11,115.23	5,382.52	86.22	126.12	89.04	-3,320.79	1,375.07	1,200.30	988.05	212.25	5.655				
9,100.00	5,402.35	11,215.23	5,382.16	88.51	128.32	89.04	-3,385.79	1,451.06	1,200.30	983.55	216.75	5.538				
9,200.00	5,402.14	11,315.23	5,381.81	90.81	130.53	89.03	-3,450.80	1,527.05	1,200.30	979.04	221.26	5.425				
9,300.00	5,401.94	11,415.23	5,381.45	93.11	132.74	89.02	-3,515.80	1,603.04	1,200.30	974.52	225.78	5.316				
9,400.00	5,401.74	11,515.23	5,381.09	95.41	134.95	89.01	-3,580.80	1,679.03	1,200.30	970.00	230.30	5.212				
9,500.00	5,401.53	11,615.23	5,380.73	97.71	137.18	89.01	-3,645.80	1,755.02	1,200.30	965.46	234.84	5.111				
9,600.00	5,401.33	11,715.23	5,380.37	100.02	139.40	89.00	-3,710.81	1,831.01	1,200.30	960.92	239.38	5.014				
9,700.00	5,401.12	11,815.23	5,380.01	102.33	141.64	88.99	-3,775.81	1,907.00	1,200.30	956.38	243.92	4.921				
9,800.00	5,400.92	11,915.23	5,379.65	104.64	143.87	88.98	-3,840.81	1,982.99	1,200.30	951.82	248.48	4.831				
9,900.00	5,400.71	12,015.23	5,379.29	106.95	146.11	88.98	-3,905.82	2,058.98	1,200.30	947.26	253.04	4.744				
10,000.00	5,400.51	12,115.23	5,378.93	109.27	148.36	88.97	-3,970.82	2,134.97	1,200.30	942.70	257.60	4.660				
10,100.00	5,400.31	12,215.23	5,378.57	111.59	150.60	88.96	-4,035.82	2,210.96	1,200.30	938.13	262.17	4.578				
10,200.00	5,400.10	12,315.23	5,378.21	113.91	152.85	88.96	-4,100.82	2,286.95	1,200.30	933.56	266.75	4.500				
10,300.00	5,399.90	12,415.23	5,377.85	116.23	155.11	88.95	-4,165.83	2,362.94	1,200.30	928.98	271.32	4.424				
10,400.00	5,399.69	12,515.23	5,377.50	118.55	157.37	88.94	-4,230.83	2,438.93	1,200.30	924.40	275.91	4.350				
10,500.00	5,399.49	12,615.23	5,377.14	120.87	159.63	88.93	-4,295.83	2,514.92	1,200.30	919.81	280.50	4.279				
10,600.00	5,399.28	12,715.23	5,376.78	123.20	161.89	88.93	-4,360.83	2,590.91	1,200.31	915.22	285.09	4.210				
10,700.00	5,399.08	12,815.23	5,376.42	125.53	164.16	88.92	-4,425.84	2,666.90	1,200.31	910.62	289.68	4.144				
10,800.00	5,398.88	12,915.23	5,376.06	127.85	166.43	88.91	-4,490.84	2,742.89	1,200.31	906.02	294.28	4.079				
10,900.00	5,398.67	13,015.23	5,375.70	130.18	168.70	88.90	-4,555.84	2,818.88	1,200.31	901.42	298.89	4.016				
11,000.00	5,398.47	13,115.23	5,375.34	132.51	170.98	88.90	-4,620.85	2,894.87	1,200.31	896.81	303.49	3.955				
11,100.00	5,398.26	13,215.23	5,374.98	134.84	173.26	88.89	-4,685.85	2,970.86	1,200.31	892.21	308.10	3.896				
11,200.00	5,398.06	13,315.23	5,374.62	137.18	175.54	88.88	-4,750.85	3,046.85	1,200.31	887.59	312.72	3.838				
11,300.00	5,397.86	13,415.23	5,374.26	139.51	177.82	88.87	-4,815.85	3,122.84	1,200.31	882.98	317.33	3.783				
11,400.00	5,397.65	13,515.23	5,373.90	141.84	180.10	88.87	-4,880.86	3,198.83	1,200.31	878.36	321.95	3.728				
11,500.00	5,397.45	13,615.23	5,373.54	144.18	182.39	88.86	-4,945.86	3,274.82	1,200.31	873.74	326.57	3.675				
11,600.00	5,397.24	13,715.23	5,373.19	146.52	184.68	88.85	-5,010.86	3,350.81	1,200.31	869.12	331.20	3.624				
11,700.00	5,397.04	13,815.23	5,372.83	148.85	186.97	88.84	-5,075.86	3,426.80	1,200.31	864.49	335.82	3.574				
11,800.00	5,396.83	13,915.23	5,372.47	151.19	189.26	88.84	-5,140.87	3,502.79	1,200.31	859.86	340.45	3.526				
11,900.00	5,396.63	14,015.23	5,372.11	153.53	191.55	88.83	-5,205.87	3,578.78	1,200.31	855.23	345.08	3.478				
12,000.00	5,396.43	14,115.23	5,371.75	155.87	193.85	88.82	-5,270.87	3,654.77	1,200.32	850.60	349.72	3.432				
12,100.00	5,396.22	14,215.23	5,371.39	158.21	196.15	88.81	-5,335.88	3,730.76	1,200.32	845.96	354.35	3.387				
12,200.00	5,396.02	14,315.23	5,371.03	160.55	198.44	88.81	-5,400.88	3,806.75	1,200.32	841.33	358.99	3.344				
12,208.44	5,396.00	14,323.67	5,371.00	160.74	198.64	88.81	-5,406.36	3,813.16	1,200.32	840.93	359.38	3.340 SF				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

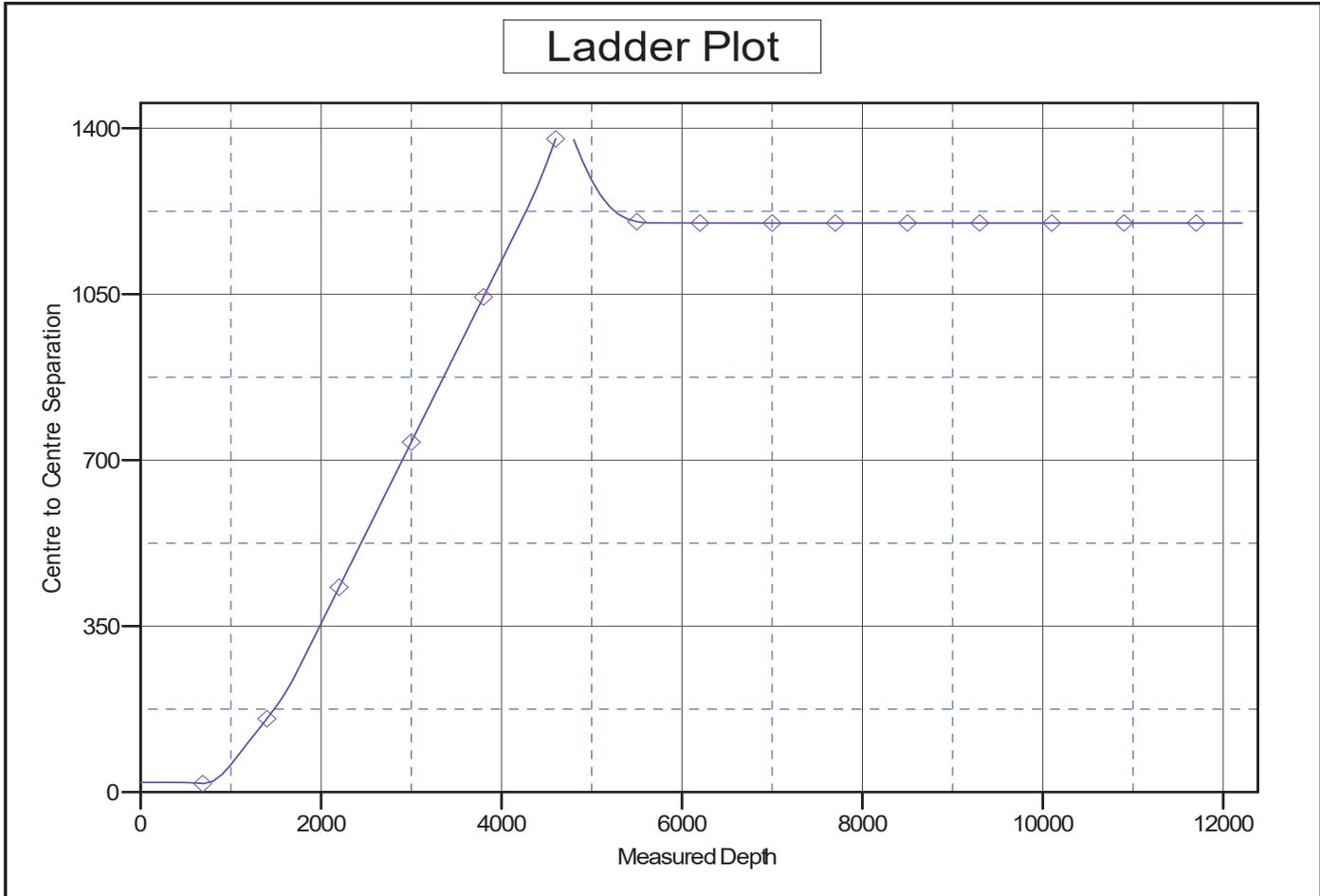


Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=7025+25 @ 7050.00ft
Reference Site:	North Alamito Unit (05 & 06)	MD Reference:	RKB=7025+25 @ 7050.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=7025+25 @ 7050.00ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -106.250000000

Coordinates are relative to: North Alamito Unit (05 & 06)
 Coordinate System is US State Plane 1983, New Mexico Central Zone
 Grid Convergence at Surface is: -0.80°



LEGEND

North Alamito Unit005HOriginalHole.rev0 V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

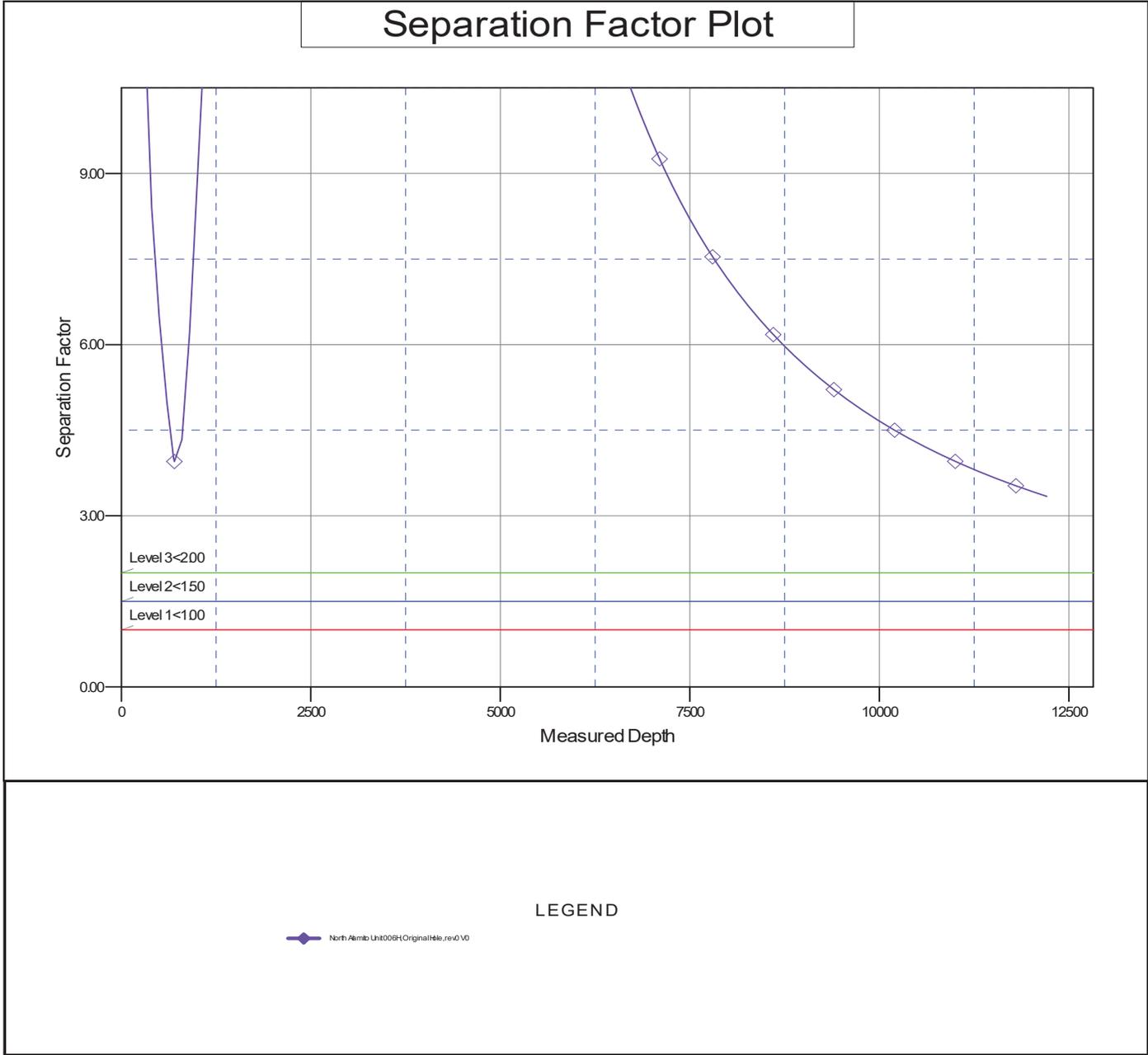


Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site North Alamito Unit (05 & 06)
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=7025+25 @ 7050.00ft
Reference Site:	North Alamito Unit (05 & 06)	MD Reference:	RKB=7025+25 @ 7050.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	North Alamito Unit 005 H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=7025+25 @ 7050.00ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -106.250000000

Coordinates are relative to: North Alamito Unit (05 & 06)
 Coordinate System is US State Plane 1983, New Mexico Central Zone
 Grid Convergence at Surface is: -0.80°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
<http://www.blm.gov/nm>



February 13, 2024

CONDITIONS OF APPROVAL

Sundry Notice of Intent ID # 2774844 Request for Bottom Hole Location and Dedicated Acreage Change

Operator: DJR Operating LLC
Lease: NMNM 81638
Agreement: NMNM 135229A
Well: North Alamito Unit 005H (API # 30-039-31428)
Location: SESW Sec 17 T23N R7W (Rio Arriba County, NM)

The requested change to the Application for Permit to Drill is approved with the following Conditions of Approval:

1. This approval is only for the sundry notice and well listed above.
2. No changes to the original APD or COA are granted with the approval of this Sundry Notice other than the dedicated acreage, directional plan, bottomhole location change, casing lengths, and cement volumes.

If you have any questions regarding this, please feel free to contact Matthew Kade of this office at (505) 564-7736 or mkade@blm.gov.

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

District IV
 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 313908

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 313908
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	4/12/2024