

Well Name: NORTH ALAMITO UNIT	Well Location: T23N / R7W / SEC 19 / NENE / 36.21727 / -107.610473	County or Parish/State: SANDOVAL / NM
Well Number: 102H	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: 3004321510	Well Status: Drilling Well	Operator: DJR OPERATING LLC

Notice of Intent

Sundry ID: 2774610

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 02/12/2024	Time Sundry Submitted: 11:02
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 7310-ft lateral. DJR is seeking approval to extend the lateral to 9444-ft, changing the proposed depth from 5310 / 13042 to 5291 / 15330, adjusting the BHL & increasing the dedicated acres from 480 to 560. 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

102H_NOI_Change_to_APD_BLM_Rev2_20240212110159.pdf

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US Well Number: 3004321510	Well Status: Drilling Well	Operator: DJR OPERATING LLC

Conditions of Approval

Additional

DJR_Operating_LLC_North_Alamito_Unit_102H_BHL_Change_2774610_MHK_20240213074948.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 11:02 AM
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 I1625 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: (505) 334-1283 Fax: (505) 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) 476-3462State of New Mexico
Energy, Minerals & Natural Resources DepartmentForm C-102
Revised August 1, 2011Submit one copy to appropriate
District OfficeOIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21510		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 102H
⁷ GRID No 371838	⁸ Operator Name DJR OPERATING, LLC		⁹ Elevation 6962'

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
A	19	23N	7W		917'	NORTH	1154'	EAST	SANDOVAL

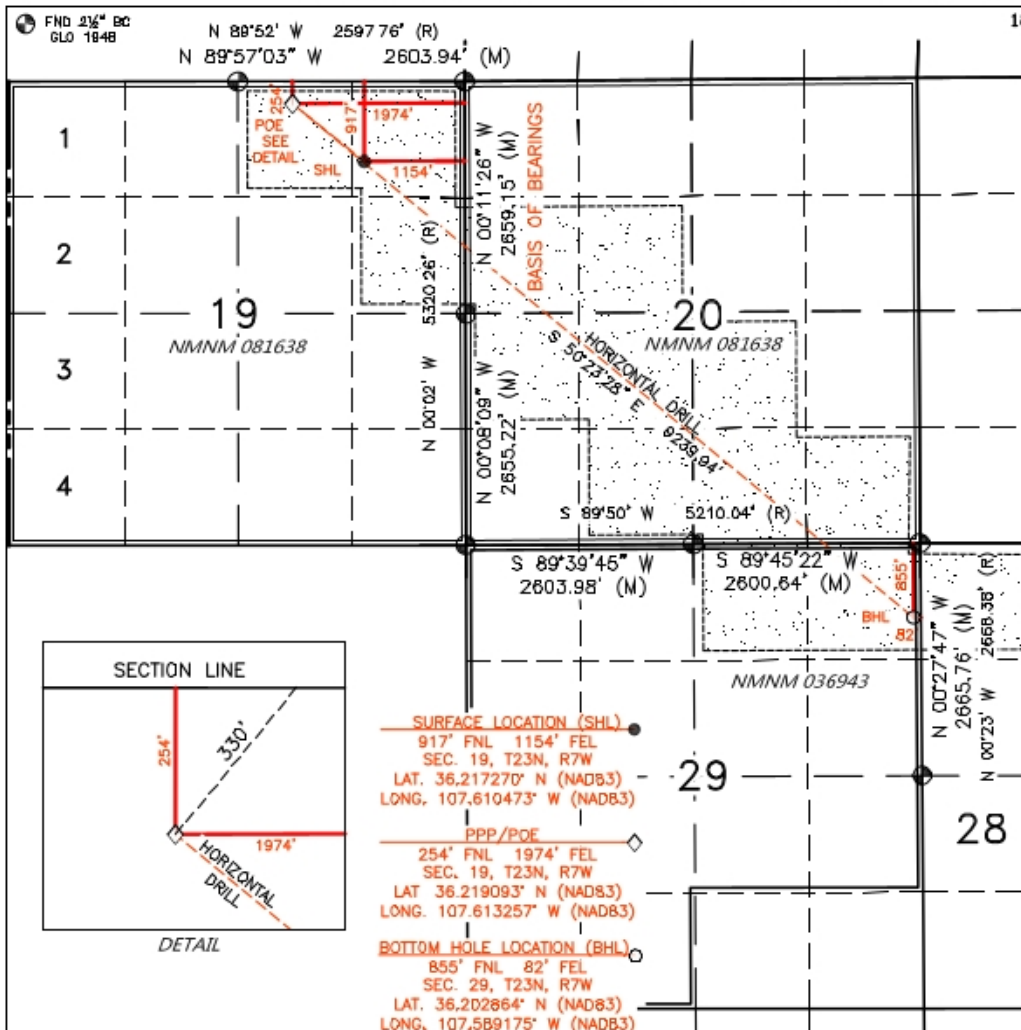
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	29	23N	7W		855'	NORTH	82'	EAST	SANDOVAL

¹² Dedicated Acres PENETRATED SPACING UNIT; SEC 19: NW/NE, NE/NE & SE/NE (120 AC.); SEC 20: SW/NW, SE/NW, NW/SW, NE/SW, SE/SW, NW/SE, SW/SE & SE/SE (320 AC.); SEC 29: NW/NE & NE/NE (80 AC.); SEC 28: NW/NW (40 AC.) = 560 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 released 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

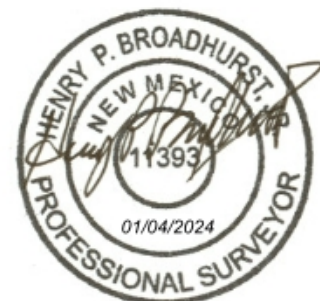
Shaw-Marie Ford
Printed Name
sford@djrlc.com
E-mail Address

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.

AUGUST 11, 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 102H

API Number: 30-043-21510

State: New Mexico

County: San Juan

Surface Elevation: 6,962 ft ASL (GL) 6,987 ft ASL (KB)

Surface Location: 19-23N-07W Sec-Twn-Rng 917 ft FNL 1,154 ft FEL

36.217270 ° N latitude 107.610473 ° W longitude (NAD 83)

BH Location: 29-23N-07W Sec-Twn-Rng 161 ft FNL 188 ft FEL

36.204770 ° N latitude 107.589547 ° 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 N19-2307 pad entrance on left (from South to North): N Alamito 102H, 106H wells).

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
	Ojo Alamo	5,915	1,072	1,072	W	normal
	Kirtland	5,800	1,187	1,187	W	normal
	Fruitland	5,630	1,357	1,359	G, W	sub
	Pictured Cliffs	5,294	1,693	1,709	G, W	sub
	Lewis	5,139	1,848	1,879	G, W	normal
	Chacra	4,888	2,099	2,163	G, W	normal
	Cliff House	3,801	3,186	3,402	G, W	sub
	Menefee	3,756	3,231	3,453	G, W	normal
	Point Lookout	2,923	4,064	4,401	G, W	normal
	Mancos	2,708	4,279	4,646	O,G	sub (~0.38)
	Gallup (MNCS_A)	2,372	4,615	5,017	O,G	sub (~0.38)
	MNCS_B	2,272	4,715	5,117	O,G	sub (~0.38)
	MNCS_C	2,185	4,802	5,204	O,G	sub (~0.38)
	MNCS_Cms	2,140	4,847	5,250	O,G	sub (~0.38)
	MNCS_D	2,014	4,973	5,383	O,G	sub (~0.38)
	MNCS_E	1,903	5,084	5,516	O,G	sub (~0.38)
	MNCS_F	1,853	5,134	5,583	O,G	sub (~0.38)
	MNCS_G	1,778	5,209	5,704	O,G	sub (~0.38)
	MNCS_H	1,717	5,270	5,829	O,G	sub (~0.38)
	MNCS_I	1,679	5,308	5,937	O,G	sub (~0.38)
	FTP TARGET	1,696	5,291	5,886	O,G	sub (~0.38)
	PROJECTED TD	1,703	5,284	15,330	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: 2,280 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 1,120 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 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	1,137	110,988	110,988
Min. S.F.					13.21	3.10	5.08	3.81

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

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	5,986 ft (MD)	Hole Section Length:	5,636 ft
350 ft (TVD)	to	5,317 ft (TVD)	Casing Required:	5,986 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					2,322	1,424	235,722	235,722
Min. S.F.					1.86	3.50	1.76	1.56

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

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	528	1,131
Tail	Type III	14.6	1.380	6.64	20%	4,546	195	269

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.

5,986 ft (MD)	to	15,330 ft (MD)	Hole Section Length:	9,344 ft
5,317 ft (TVD)	to	5,284 ft (TVD)	Casing Required:	9,494 ft
Estimated KOP:		4,841 ft (MD)	4,450 ft (TVD)	
Estimated Liner Top:		5,836 ft (MD)	5,273 ft (TVD)	
Estimated Landing Point (FTP):		5,886 ft (MD)	5,291 ft (TVD)	
Estimated Lateral Length:		9,444 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

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					2,610	8,802	253,449	253,449
Min. S.F.					2.90	1.21	1.45	1.52

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%	5,836	776	1,211

Displacement	206	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

American Cementing Liner & Production Blend

Spacer	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			
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

FINISH WELL: ND BOP, cap well, RDMO.

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 9,344
Est Frac Inform: 39 Frac Stages 150,000 bbls slick water 12,150,000 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 2/8/2024

WELL NAME: NORTH ALAMITO UNIT 102H

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

API Number: 30-043-21510

AFE Number: Not yet assigned

ER Well Number: Not yet assigned

State: New Mexico

County: San Juan

Surface Elev.: 6,962 ft ASL (GL) 6,987 ft ASL (KB)

Surface Location: 19-23N-07W Sec-Twn- Rng 917 ft FNL 1,154 ft FEL

BH Location: 29-23N-07W Sec-Twn- Rng 161 ft FNL 188 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 N19-2307 pad entrance on left (from South to North): N Alamito 102H, 106H wells).

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	5,986 ft
KOP (MD)	4,841 ft
KOP (TVD)	4,450 ft
Target (TVD)	5,291 ft
Curve BUR	10 °/100 ft
POE (MD)	5,886 ft
TD (MD)	15,330 ft
Lat Len (ft)	9,444 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	5,986	7	26.0	K-55	LTC	0	5,986
Production	8.500	15,330	4.500	11.6	P-110	BTC	0	15,330

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	528
Inter. (Tail)	Type III	14.6	1.38	6.64	0.1503	20%	4,546	195
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%	5,836	776

COMPLETION / PRODUCTION SUMMARY:

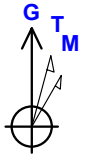
Frac: 39 plug-and-perf stages with 150,000 bbls slickwater fluid and 12,100,000 lbs of proppant (estimated)
Flowback: Flow back through production tubing as pressures allow
Production: Produce through production tubing via gas-lift into permanent production and storage facilities

Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	1,072	1,072
Kirtland	1,187	1,187
Fruitland	1,357	1,359
Pictured Cliffs	1,693	1,709
Lewis	1,848	1,879
Chacra	2,099	2,163
Cliff House	3,186	3,402
Menefee	3,231	3,453
Point Lookout	4,064	4,401
Mancos	4,279	4,646
Gallup (MNCS_A)	4,615	5,017
MNCS_B	4,715	5,117
MNCS_C	4,802	5,204
MNCS_Cms	4,847	5,250
MNCS_D	4,973	5,383
MNCS_E	5,084	5,516
MNCS_F	5,134	5,583
MNCS_G	5,209	5,704
MNCS_H	5,270	5,829
MNCS_I	5,308	5,937
FTP TARGET	5,291	5,886
PROJECTED TD	5,284	15,330



Well: North Alamito Unit 102 H
Site: North Alamito Unit (102 & 106)
Project: Sandoval County, New Mexico NAD83 NM C
Design: rev0
Rig:

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=6962+25 @ 6987.00ft



Azimuths to Grid North
True North: 0.80°
Magnetic North: 9.27°

Magnetic Field
Strength: 49055.2nT
Dip Angle: 62.70°
Date: 1/9/2024
Model: IGRF2020

Surface location:
Northing 1901167.832 Easting 1239107.836 Latitude 36.21727000 Longitude -107.610473000

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 9.27°

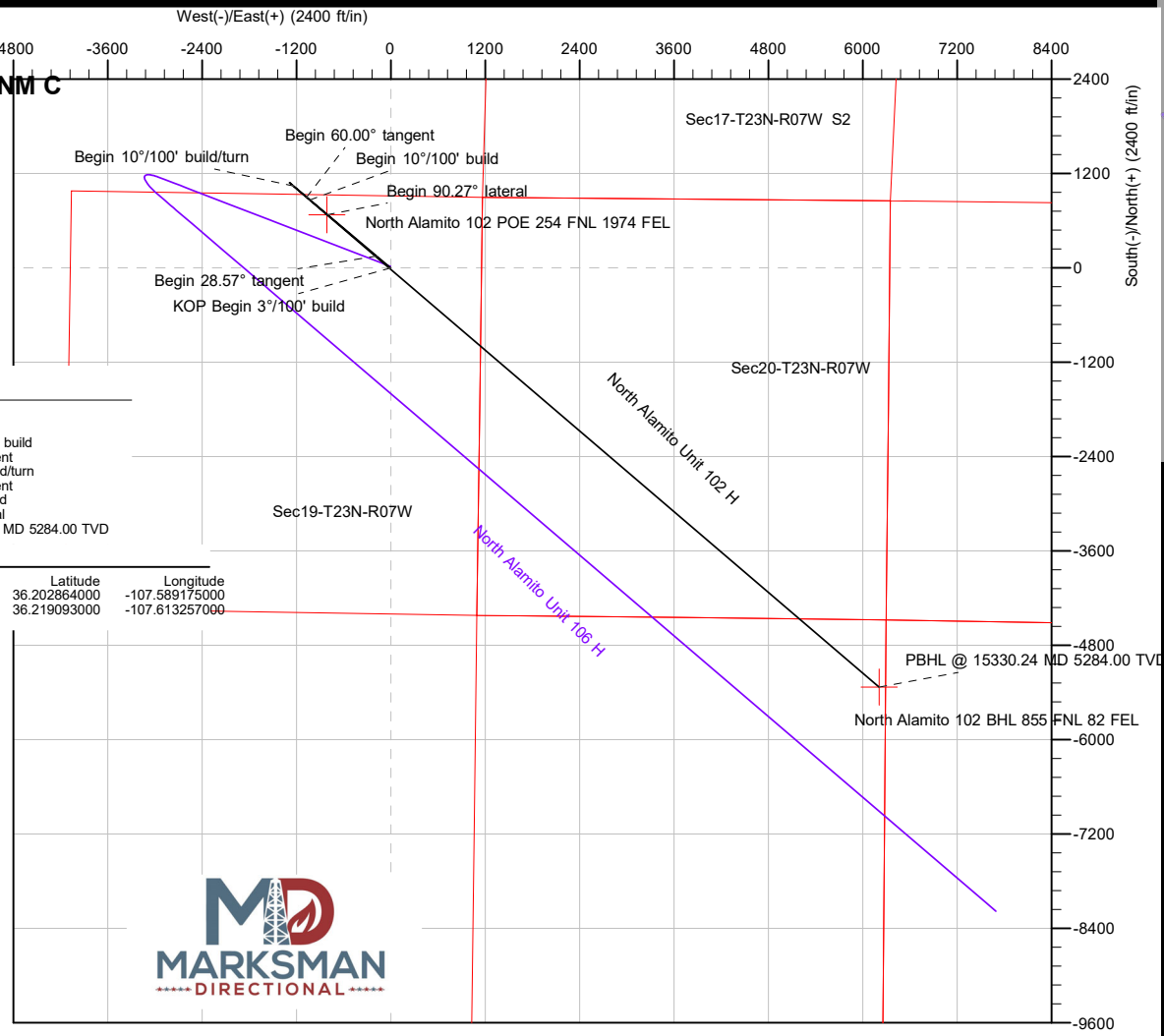
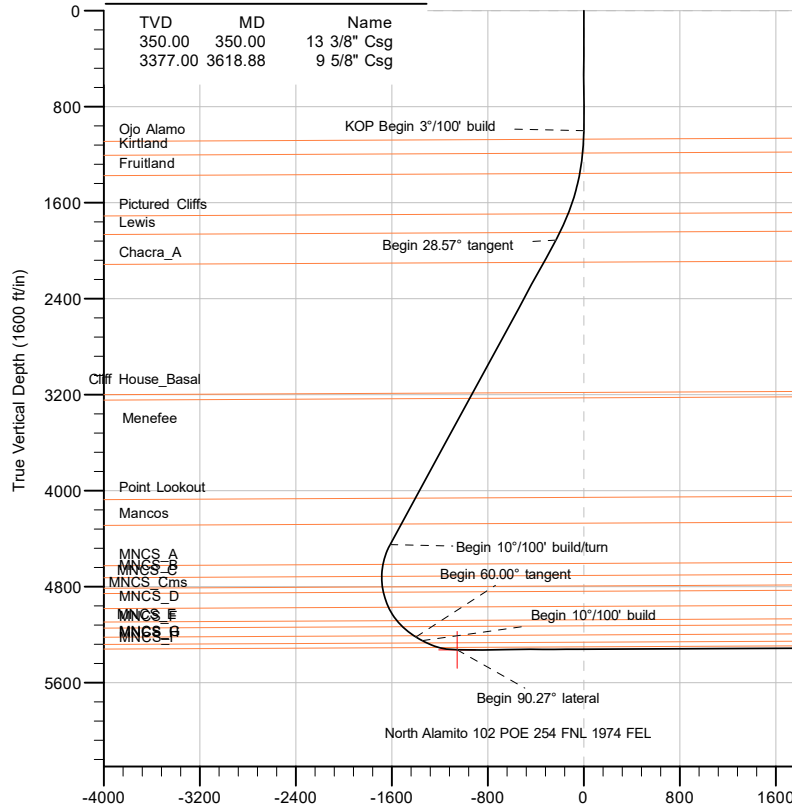
Section Details

ec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	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	1952.26	28.57	310.097	1913.29	149.76	-177.87	3.00	310.10	-232.52	Begin 28.57° tangent
4	4840.70	28.57	310.097	4450.07	1039.40	-1234.47	0.00	0.00	-1613.72	Begin 10°/100' build/turn
5	5726.37	60.00	130.545	5220.24	896.93	-1071.14	10.00	-179.61	-1396.99	Begin 60.00° tangent
6	5786.37	60.00	130.545	5250.24	863.15	-1031.65	0.00	0.00	-1345.03	Begin 10°/100' build
7	6089.03	90.27	130.545	5327.00	675.19	-811.93	10.00	0.00	-1055.89	Begin 90.27° lateral
8	15330.24	90.27	130.545	5284.00	-5331.91	6210.37	0.00	0.00	8185.21	PBHL @ 15330.24 MD 5284.00 TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
North Alamito 102 BHL 855 FNL 82 FEL	5284.00	-5331.91	6210.37	1895835.934	1245318.191	36.202864000	-107.589175000
North Alamito 102 POE 254 FNL 1974 FEL	5327.00	675.19	-811.93	1901843.025	1238295.904	36.219093000	-107.613257000

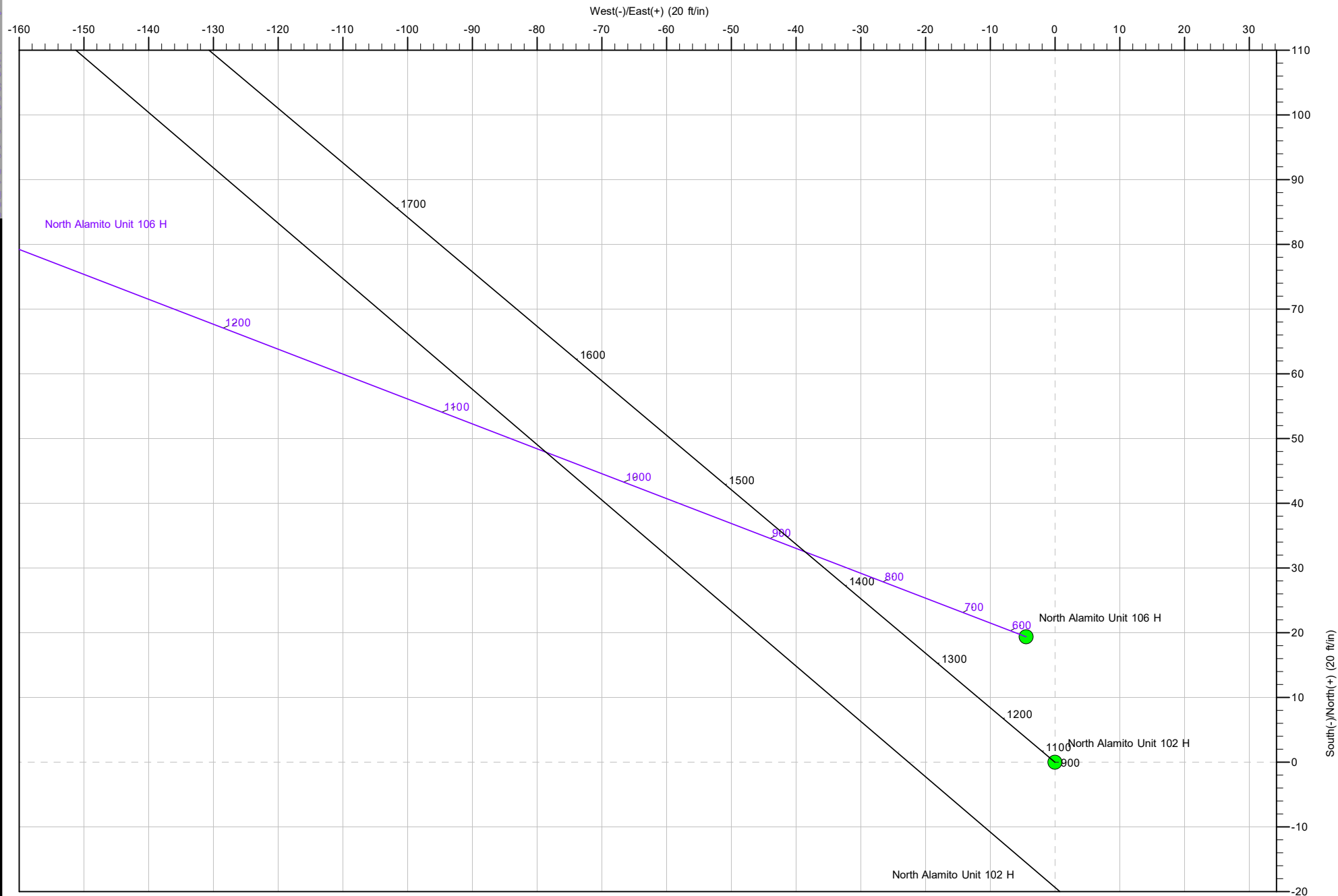
CASING DETAILS



Vertical Section at 130.545° (1600 ft/in)



Well: North Alamito Unit 102 H
Site: North Alamito Unit (102 & 106)
Project: Sandoval County, New Mexico NAD83 NM C
Design: rev0
Rig:





Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6962+25 @ 6987.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6962+25 @ 6987.00ft
Site:	North Alamito Unit (102 & 106)	North Reference:	Grid
Well:	North Alamito Unit 102 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 (102 & 106)				
Site Position:		Northing:	1,901,167.832 usft	Latitude:	36.217270000
From:	Lat/Long	Easting:	1,239,107.836 usft	Longitude:	-107.610473000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well		North Alamito Unit 102 H, Surf loc: 917 FNL 1154 FE: Section 19-T23N-R07W				
Well Position	+N/-S	0.00 ft	Northing:	1,901,167.832 usft	Latitude:	36.217270000
	+E/-W	0.00 ft	Easting:	1,239,107.836 usft	Longitude:	-107.610473000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,962.00 ft
Grid Convergence:		-0.80 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/9/2024	8.47	62.70	49,055.21106236

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	1/9/2024			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	15,330.24 rev0 (Original Hole)	MWD	OWSG MWD - Standard	

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	
1,952.26	28.57	310.097	1,913.29	149.76	-177.87	3.00	3.00	0.00	310.10	
4,840.70	28.57	310.097	4,450.07	1,039.40	-1,234.47	0.00	0.00	0.00	0.00	
5,726.37	60.00	130.545	5,220.24	896.93	-1,071.14	10.00	3.55	-20.27	-179.61	
5,786.37	60.00	130.545	5,250.24	863.15	-1,031.65	0.00	0.00	0.00	0.00	
6,089.04	90.27	130.545	5,327.00	675.19	-811.93	10.00	10.00	0.00	0.00	
15,330.24	90.27	130.545	5,284.00	-5,331.91	6,210.37	0.00	0.00	0.00	0.00	North Alamito 102 BH



Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6962+25 @ 6987.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6962+25 @ 6987.00ft
Site:	North Alamito Unit (102 & 106)	North Reference:	Grid
Well:	North Alamito Unit 102 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	310.097	1,099.95	1.69	-2.00	-2.62	3.00	3.00	0.00
1,200.00	6.00	310.097	1,199.63	6.74	-8.00	-10.46	3.00	3.00	0.00
1,300.00	9.00	310.097	1,298.77	15.14	-17.99	-23.51	3.00	3.00	0.00
1,400.00	12.00	310.097	1,397.08	26.88	-31.93	-41.73	3.00	3.00	0.00
1,500.00	15.00	310.097	1,494.31	41.91	-49.78	-65.07	3.00	3.00	0.00
1,600.00	18.00	310.097	1,590.18	60.21	-71.50	-93.47	3.00	3.00	0.00
1,700.00	21.00	310.097	1,684.43	81.70	-97.04	-126.85	3.00	3.00	0.00
1,800.00	24.00	310.097	1,776.81	106.35	-126.31	-165.11	3.00	3.00	0.00
1,900.00	27.00	310.097	1,867.06	134.07	-159.24	-208.16	3.00	3.00	0.00
1,952.26	28.57	310.097	1,913.29	149.76	-177.87	-232.52	3.00	3.00	0.00
2,000.00	28.57	310.097	1,955.22	164.47	-195.33	-255.34	0.00	0.00	0.00
2,100.00	28.57	310.097	2,043.04	195.27	-231.91	-303.16	0.00	0.00	0.00
2,200.00	28.57	310.097	2,130.87	226.07	-268.49	-350.98	0.00	0.00	0.00
2,300.00	28.57	310.097	2,218.69	256.87	-305.07	-398.80	0.00	0.00	0.00
2,400.00	28.57	310.097	2,306.52	287.67	-341.65	-446.62	0.00	0.00	0.00
2,500.00	28.57	310.097	2,394.34	318.47	-378.23	-494.44	0.00	0.00	0.00
2,600.00	28.57	310.097	2,482.17	349.27	-414.81	-542.25	0.00	0.00	0.00
2,700.00	28.57	310.097	2,570.00	380.07	-451.39	-590.07	0.00	0.00	0.00
2,800.00	28.57	310.097	2,657.82	410.87	-487.98	-637.89	0.00	0.00	0.00
2,900.00	28.57	310.097	2,745.65	441.67	-524.56	-685.71	0.00	0.00	0.00
3,000.00	28.57	310.097	2,833.47	472.46	-561.14	-733.53	0.00	0.00	0.00
3,100.00	28.57	310.097	2,921.30	503.26	-597.72	-781.35	0.00	0.00	0.00
3,200.00	28.57	310.097	3,009.12	534.06	-634.30	-829.17	0.00	0.00	0.00
3,300.00	28.57	310.097	3,096.95	564.86	-670.88	-876.98	0.00	0.00	0.00
3,400.00	28.57	310.097	3,184.77	595.66	-707.46	-924.80	0.00	0.00	0.00
3,500.00	28.57	310.097	3,272.60	626.46	-744.04	-972.62	0.00	0.00	0.00
3,600.00	28.57	310.097	3,360.42	657.26	-780.62	-1,020.44	0.00	0.00	0.00
3,700.00	28.57	310.097	3,448.25	688.06	-817.20	-1,068.26	0.00	0.00	0.00
3,800.00	28.57	310.097	3,536.07	718.86	-853.78	-1,116.08	0.00	0.00	0.00
3,900.00	28.57	310.097	3,623.90	749.66	-890.36	-1,163.89	0.00	0.00	0.00
4,000.00	28.57	310.097	3,711.72	780.46	-926.94	-1,211.71	0.00	0.00	0.00
4,100.00	28.57	310.097	3,799.55	811.26	-963.52	-1,259.53	0.00	0.00	0.00
4,200.00	28.57	310.097	3,887.37	842.06	-1,000.10	-1,307.35	0.00	0.00	0.00
4,300.00	28.57	310.097	3,975.20	872.86	-1,036.68	-1,355.17	0.00	0.00	0.00
4,400.00	28.57	310.097	4,063.02	903.66	-1,073.26	-1,402.99	0.00	0.00	0.00
4,500.00	28.57	310.097	4,150.85	934.46	-1,109.84	-1,450.81	0.00	0.00	0.00
4,600.00	28.57	310.097	4,238.67	965.26	-1,146.42	-1,498.62	0.00	0.00	0.00
4,700.00	28.57	310.097	4,326.50	996.06	-1,183.00	-1,546.44	0.00	0.00	0.00
4,800.00	28.57	310.097	4,414.32	1,026.86	-1,219.58	-1,594.26	0.00	0.00	0.00
4,840.70	28.57	310.097	4,450.07	1,039.40	-1,234.47	-1,613.72	0.00	0.00	0.00
4,850.00	27.64	310.083	4,458.27	1,042.22	-1,237.82	-1,618.10	10.00	-10.00	-0.15
4,900.00	22.64	309.992	4,503.52	1,055.88	-1,254.08	-1,639.34	10.00	-10.00	-0.18
4,950.00	17.64	309.854	4,550.45	1,066.92	-1,267.27	-1,656.54	10.00	-10.00	-0.28



Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6962+25 @ 6987.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6962+25 @ 6987.00ft
Site:	North Alamito Unit (102 & 106)	North Reference:	Grid
Well:	North Alamito Unit 102 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)
5,000.00	12.64	309.610	4,598.70	1,075.27	-1,277.31	-1,669.60	10.00	-10.00	-0.49
5,050.00	7.64	309.054	4,647.90	1,080.86	-1,284.11	-1,678.39	10.00	-10.00	-1.11
5,100.00	2.64	306.414	4,697.69	1,083.64	-1,287.62	-1,682.87	10.00	-9.99	-5.28
5,150.00	2.37	134.926	4,747.67	1,083.59	-1,287.81	-1,682.99	10.00	-0.55	-342.98
5,200.00	7.37	131.874	4,797.47	1,080.72	-1,284.69	-1,678.75	10.00	9.99	-6.11
5,250.00	12.36	131.284	4,846.72	1,075.05	-1,278.28	-1,670.19	10.00	10.00	-1.18
5,300.00	17.36	131.031	4,895.03	1,066.61	-1,268.62	-1,657.37	10.00	10.00	-0.51
5,350.00	22.36	130.889	4,942.04	1,055.48	-1,255.80	-1,640.38	10.00	10.00	-0.28
5,400.00	27.36	130.796	4,987.39	1,041.74	-1,239.90	-1,619.37	10.00	10.00	-0.19
5,450.00	32.36	130.730	5,030.74	1,025.49	-1,221.04	-1,594.48	10.00	10.00	-0.13
5,500.00	37.36	130.681	5,071.75	1,006.85	-1,199.38	-1,565.91	10.00	10.00	-0.10
5,550.00	42.36	130.641	5,110.12	985.98	-1,175.08	-1,533.87	10.00	10.00	-0.08
5,600.00	47.36	130.608	5,145.55	963.02	-1,148.32	-1,498.61	10.00	10.00	-0.07
5,650.00	52.36	130.581	5,177.77	938.15	-1,119.30	-1,460.40	10.00	10.00	-0.06
5,700.00	57.36	130.556	5,206.53	911.57	-1,088.25	-1,419.52	10.00	10.00	-0.05
5,726.37	60.00	130.545	5,220.24	896.93	-1,071.14	-1,396.99	10.00	10.00	-0.04
5,786.37	60.00	130.545	5,250.24	863.15	-1,031.65	-1,345.03	0.00	0.00	0.00
5,800.00	61.36	130.545	5,256.91	855.42	-1,022.62	-1,333.15	10.00	10.00	0.00
5,850.00	66.36	130.545	5,278.93	826.26	-988.52	-1,288.28	10.00	10.00	0.00
5,900.00	71.36	130.545	5,296.96	795.95	-953.09	-1,241.65	10.00	10.00	0.00
5,950.00	76.36	130.545	5,310.85	764.74	-916.61	-1,193.64	10.00	10.00	0.00
6,000.00	81.36	130.545	5,320.50	732.86	-879.34	-1,144.60	10.00	10.00	0.00
6,050.00	86.36	130.545	5,325.85	700.55	-841.57	-1,094.90	10.00	10.00	0.00
6,089.04	90.27	130.545	5,327.00	675.19	-811.93	-1,055.89	10.00	10.00	0.00
6,100.00	90.27	130.545	5,326.94	668.07	-803.60	-1,044.92	0.00	0.00	0.00
6,200.00	90.27	130.545	5,326.48	603.06	-727.61	-944.92	0.00	0.00	0.00
6,300.00	90.27	130.545	5,326.01	538.06	-651.62	-844.93	0.00	0.00	0.00
6,400.00	90.27	130.545	5,325.55	473.06	-575.63	-744.93	0.00	0.00	0.00
6,500.00	90.27	130.545	5,325.08	408.05	-499.64	-644.93	0.00	0.00	0.00
6,600.00	90.27	130.545	5,324.62	343.05	-423.65	-544.93	0.00	0.00	0.00
6,700.00	90.27	130.545	5,324.15	278.05	-347.66	-444.93	0.00	0.00	0.00
6,800.00	90.27	130.545	5,323.69	213.04	-271.67	-344.93	0.00	0.00	0.00
6,900.00	90.27	130.545	5,323.22	148.04	-195.69	-244.93	0.00	0.00	0.00
7,000.00	90.27	130.545	5,322.76	83.03	-119.70	-144.93	0.00	0.00	0.00
7,100.00	90.27	130.545	5,322.29	18.03	-43.71	-44.93	0.00	0.00	0.00
7,200.00	90.27	130.545	5,321.83	-46.97	32.28	55.06	0.00	0.00	0.00
7,300.00	90.27	130.545	5,321.36	-111.98	108.27	155.06	0.00	0.00	0.00
7,400.00	90.27	130.545	5,320.90	-176.98	184.26	255.06	0.00	0.00	0.00
7,500.00	90.27	130.545	5,320.43	-241.98	260.25	355.06	0.00	0.00	0.00
7,600.00	90.27	130.545	5,319.97	-306.99	336.24	455.06	0.00	0.00	0.00
7,700.00	90.27	130.545	5,319.50	-371.99	412.23	555.06	0.00	0.00	0.00
7,800.00	90.27	130.545	5,319.04	-436.99	488.22	655.06	0.00	0.00	0.00
7,900.00	90.27	130.545	5,318.57	-502.00	564.20	755.06	0.00	0.00	0.00
8,000.00	90.27	130.545	5,318.10	-567.00	640.19	855.06	0.00	0.00	0.00
8,100.00	90.27	130.545	5,317.64	-632.00	716.18	955.06	0.00	0.00	0.00
8,200.00	90.27	130.545	5,317.17	-697.01	792.17	1,055.05	0.00	0.00	0.00
8,300.00	90.27	130.545	5,316.71	-762.01	868.16	1,155.05	0.00	0.00	0.00
8,400.00	90.27	130.545	5,316.24	-827.01	944.15	1,255.05	0.00	0.00	0.00
8,500.00	90.27	130.545	5,315.78	-892.02	1,020.14	1,355.05	0.00	0.00	0.00
8,600.00	90.27	130.545	5,315.31	-957.02	1,096.13	1,455.05	0.00	0.00	0.00
8,700.00	90.27	130.545	5,314.85	-1,022.02	1,172.12	1,555.05	0.00	0.00	0.00
8,800.00	90.27	130.545	5,314.38	-1,087.03	1,248.11	1,655.05	0.00	0.00	0.00
8,900.00	90.27	130.545	5,313.92	-1,152.03	1,324.10	1,755.05	0.00	0.00	0.00
9,000.00	90.27	130.545	5,313.45	-1,217.04	1,400.08	1,855.05	0.00	0.00	0.00



Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6962+25 @ 6987.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6962+25 @ 6987.00ft
Site:	North Alamito Unit (102 & 106)	North Reference:	Grid
Well:	North Alamito Unit 102 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)	
9,100.00	90.27	130.545	5,312.99	-1,282.04	1,476.07	1,955.04	0.00	0.00	0.00	
9,200.00	90.27	130.545	5,312.52	-1,347.04	1,552.06	2,055.04	0.00	0.00	0.00	
9,300.00	90.27	130.545	5,312.06	-1,412.05	1,628.05	2,155.04	0.00	0.00	0.00	
9,400.00	90.27	130.545	5,311.59	-1,477.05	1,704.04	2,255.04	0.00	0.00	0.00	
9,500.00	90.27	130.545	5,311.13	-1,542.05	1,780.03	2,355.04	0.00	0.00	0.00	
9,600.00	90.27	130.545	5,310.66	-1,607.06	1,856.02	2,455.04	0.00	0.00	0.00	
9,700.00	90.27	130.545	5,310.20	-1,672.06	1,932.01	2,555.04	0.00	0.00	0.00	
9,800.00	90.27	130.545	5,309.73	-1,737.06	2,008.00	2,655.04	0.00	0.00	0.00	
9,900.00	90.27	130.545	5,309.26	-1,802.07	2,083.99	2,755.04	0.00	0.00	0.00	
10,000.00	90.27	130.545	5,308.80	-1,867.07	2,159.97	2,855.03	0.00	0.00	0.00	
10,100.00	90.27	130.545	5,308.33	-1,932.07	2,235.96	2,955.03	0.00	0.00	0.00	
10,200.00	90.27	130.545	5,307.87	-1,997.08	2,311.95	3,055.03	0.00	0.00	0.00	
10,300.00	90.27	130.545	5,307.40	-2,062.08	2,387.94	3,155.03	0.00	0.00	0.00	
10,400.00	90.27	130.545	5,306.94	-2,127.08	2,463.93	3,255.03	0.00	0.00	0.00	
10,500.00	90.27	130.545	5,306.47	-2,192.09	2,539.92	3,355.03	0.00	0.00	0.00	
10,600.00	90.27	130.545	5,306.01	-2,257.09	2,615.91	3,455.03	0.00	0.00	0.00	
10,700.00	90.27	130.545	5,305.54	-2,322.09	2,691.90	3,555.03	0.00	0.00	0.00	
10,800.00	90.27	130.545	5,305.08	-2,387.10	2,767.89	3,655.03	0.00	0.00	0.00	
10,900.00	90.27	130.545	5,304.61	-2,452.10	2,843.88	3,755.02	0.00	0.00	0.00	
11,000.00	90.27	130.545	5,304.15	-2,517.11	2,919.86	3,855.02	0.00	0.00	0.00	
11,100.00	90.27	130.545	5,303.68	-2,582.11	2,995.85	3,955.02	0.00	0.00	0.00	
11,200.00	90.27	130.545	5,303.22	-2,647.11	3,071.84	4,055.02	0.00	0.00	0.00	
11,300.00	90.27	130.545	5,302.75	-2,712.12	3,147.83	4,155.02	0.00	0.00	0.00	
11,400.00	90.27	130.545	5,302.29	-2,777.12	3,223.82	4,255.02	0.00	0.00	0.00	
11,500.00	90.27	130.545	5,301.82	-2,842.12	3,299.81	4,355.02	0.00	0.00	0.00	
11,600.00	90.27	130.545	5,301.36	-2,907.13	3,375.80	4,455.02	0.00	0.00	0.00	
11,700.00	90.27	130.545	5,300.89	-2,972.13	3,451.79	4,555.02	0.00	0.00	0.00	
11,800.00	90.27	130.545	5,300.42	-3,037.13	3,527.78	4,655.02	0.00	0.00	0.00	
11,900.00	90.27	130.545	5,299.96	-3,102.14	3,603.77	4,755.01	0.00	0.00	0.00	
12,000.00	90.27	130.545	5,299.49	-3,167.14	3,679.75	4,855.01	0.00	0.00	0.00	
12,100.00	90.27	130.545	5,299.03	-3,232.14	3,755.74	4,955.01	0.00	0.00	0.00	
12,200.00	90.27	130.545	5,298.56	-3,297.15	3,831.73	5,055.01	0.00	0.00	0.00	
12,300.00	90.27	130.545	5,298.10	-3,362.15	3,907.72	5,155.01	0.00	0.00	0.00	
12,400.00	90.27	130.545	5,297.63	-3,427.15	3,983.71	5,255.01	0.00	0.00	0.00	
12,500.00	90.27	130.545	5,297.17	-3,492.16	4,059.70	5,355.01	0.00	0.00	0.00	
12,600.00	90.27	130.545	5,296.70	-3,557.16	4,135.69	5,455.01	0.00	0.00	0.00	
12,700.00	90.27	130.545	5,296.24	-3,622.16	4,211.68	5,555.01	0.00	0.00	0.00	
12,800.00	90.27	130.545	5,295.77	-3,687.17	4,287.67	5,655.00	0.00	0.00	0.00	
12,900.00	90.27	130.545	5,295.31	-3,752.17	4,363.66	5,755.00	0.00	0.00	0.00	
13,000.00	90.27	130.545	5,294.84	-3,817.18	4,439.64	5,855.00	0.00	0.00	0.00	
13,100.00	90.27	130.545	5,294.38	-3,882.18	4,515.63	5,955.00	0.00	0.00	0.00	
13,200.00	90.27	130.545	5,293.91	-3,947.18	4,591.62	6,055.00	0.00	0.00	0.00	
13,300.00	90.27	130.545	5,293.45	-4,012.19	4,667.61	6,155.00	0.00	0.00	0.00	
13,400.00	90.27	130.545	5,292.98	-4,077.19	4,743.60	6,255.00	0.00	0.00	0.00	
13,500.00	90.27	130.545	5,292.52	-4,142.19	4,819.59	6,355.00	0.00	0.00	0.00	
13,600.00	90.27	130.545	5,292.05	-4,207.20	4,895.58	6,455.00	0.00	0.00	0.00	
13,700.00	90.27	130.545	5,291.58	-4,272.20	4,971.57	6,554.99	0.00	0.00	0.00	
13,800.00	90.27	130.545	5,291.12	-4,337.20	5,047.56	6,654.99	0.00	0.00	0.00	
13,900.00	90.27	130.545	5,290.65	-4,402.21	5,123.55	6,754.99	0.00	0.00	0.00	
14,000.00	90.27	130.545	5,290.19	-4,467.21	5,199.53	6,854.99	0.00	0.00	0.00	
14,100.00	90.27	130.545	5,289.72	-4,532.21	5,275.52	6,954.99	0.00	0.00	0.00	
14,200.00	90.27	130.545	5,289.26	-4,597.22	5,351.51	7,054.99	0.00	0.00	0.00	
14,300.00	90.27	130.545	5,288.79	-4,662.22	5,427.50	7,154.99	0.00	0.00	0.00	
14,400.00	90.27	130.545	5,288.33	-4,727.22	5,503.49	7,254.99	0.00	0.00	0.00	



Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6962+25 @ 6987.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6962+25 @ 6987.00ft
Site:	North Alamito Unit (102 & 106)	North Reference:	Grid
Well:	North Alamito Unit 102 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)
14,500.00	90.27	130.545	5,287.86	-4,792.23	5,579.48	7,354.99	0.00	0.00	0.00
14,600.00	90.27	130.545	5,287.40	-4,857.23	5,655.47	7,454.98	0.00	0.00	0.00
14,700.00	90.27	130.545	5,286.93	-4,922.23	5,731.46	7,554.98	0.00	0.00	0.00
14,800.00	90.27	130.545	5,286.47	-4,987.24	5,807.45	7,654.98	0.00	0.00	0.00
14,900.00	90.27	130.545	5,286.00	-5,052.24	5,883.44	7,754.98	0.00	0.00	0.00
15,000.00	90.27	130.545	5,285.54	-5,117.24	5,959.42	7,854.98	0.00	0.00	0.00
15,100.00	90.27	130.545	5,285.07	-5,182.25	6,035.41	7,954.98	0.00	0.00	0.00
15,200.00	90.27	130.545	5,284.61	-5,247.25	6,111.40	8,054.98	0.00	0.00	0.00
15,300.00	90.27	130.545	5,284.14	-5,312.26	6,187.39	8,154.98	0.00	0.00	0.00
15,330.24	90.27	130.545	5,284.00	-5,331.91	6,210.37	8,185.21	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
- hit/miss target									
- Shape									
North Alamito 102 BHL ε	0.00	360.000	5,284.00	-5,331.91	6,210.37	1,895,835.934	1,245,318.191	36.202864000	-107.589175000
- plan hits target center									
- Point									
North Alamito 102 POE :	0.00	360.000	5,327.00	675.19	-811.93	1,901,843.024	1,238,295.904	36.219093000	-107.613257000
- plan misses target center by 0.01ft at 6089.03ft MD (5327.00 TVD, 675.20 N, -811.93 E)									
- Point									

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
3,618.88	3,377.00	9 5/8" Csg		9-5/8	12-1/4



Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6962+25 @ 6987.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6962+25 @ 6987.00ft
Site:	North Alamito Unit (102 & 106)	North Reference:	Grid
Well:	North Alamito Unit 102 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,072.02	1,072.01	Ojo Alamo		-0.27	130.545	
1,187.34	1,187.04	Kirtland		-0.27	130.545	
1,359.27	1,357.16	Fruitland		-0.27	130.545	
1,708.77	1,692.61	Pictured Cliffs		-0.27	130.545	
1,878.60	1,847.94	Lewis		-0.27	130.545	
2,163.22	2,098.57	Chacra_A		-0.27	130.545	
3,401.81	3,186.36	Cliff House_Basal		-0.27	130.545	
3,453.18	3,231.48	Menefee		-0.27	130.545	
4,400.67	4,063.61	Point Lookout		-0.27	130.545	
4,646.11	4,279.17	Mancos		-0.27	130.545	
5,016.54	4,614.88	MNCS_A		-0.27	130.545	
5,117.26	4,714.93	MNCS_B		-0.27	130.545	
5,204.47	4,801.91	MNCS_C		-0.27	130.545	
5,250.16	4,846.87	MNCS_Cms		-0.27	130.545	
5,383.54	4,972.67	MNCS_D		-0.27	130.545	
5,516.00	5,084.33	MNCS_E		-0.27	130.545	
5,583.39	5,134.12	MNCS_F		-0.27	130.545	
5,703.99	5,208.67	MNCS_G		-0.27	130.545	
5,829.00	5,270.16	MNCS_H		-0.27	130.545	
5,937.16	5,307.68	MNCS_I		-0.27	130.545	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build	
1,952.26	1,913.29	149.76	-177.87	Begin 28.57° tangent	
4,840.70	4,450.07	1,039.40	-1,234.47	Begin 10°/100' build/turn	
5,726.37	5,220.24	896.93	-1,071.14	Begin 60.00° tangent	
5,786.37	5,250.24	863.15	-1,031.65	Begin 10°/100' build	
6,089.04	5,327.00	675.19	-811.93	Begin 90.27° lateral	
15,330.24	5,284.00	-5,331.91	6,210.37	PBHL @ 15330.24 MD 5284.00 TVD	



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6962+25 @ 6987.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6962+25 @ 6987.00ft
Site:	North Alamito Unit (102 & 106)	North Reference:	Grid
Well:	North Alamito Unit 102 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 (102 & 106)			
Site Position:		Northing:	1,901,167.832 usft	Latitude:	36.217270000
From:	Lat/Long	Easting:	1,239,107.836 usft	Longitude:	-107.610473000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	North Alamito Unit 102 H, Surf loc: 917 FNL 1154 FE: Section 19-T23N-R07W					
Well Position	+N/-S	0.00 ft	Northing:	1,901,167.832 usft	Latitude:	36.217270000
	+E/-W	0.00 ft	Easting:	1,239,107.836 usft	Longitude:	-107.610473000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,962.00 ft
Grid Convergence:		-0.80 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/9/2024	8.47	62.70	49,055.21106236

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	1/9/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,330.24 rev0 (Original Hole)	MWD	
			OWSG MWD - Standard	

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	
1,952.26	28.57	310.097	1,913.29	149.76	-177.87	3.00	3.00	0.00	310.10	
4,840.70	28.57	310.097	4,450.07	1,039.40	-1,234.47	0.00	0.00	0.00	0.00	
5,726.37	60.00	130.545	5,220.24	896.93	-1,071.14	10.00	3.55	-20.27	-179.61	
5,786.37	60.00	130.545	5,250.24	863.15	-1,031.65	0.00	0.00	0.00	0.00	
6,089.04	90.27	130.545	5,327.00	675.19	-811.93	10.00	10.00	0.00	0.00	
15,330.24	90.27	130.545	5,284.00	-5,331.91	6,210.37	0.00	0.00	0.00	0.00	North Alamito 102 BH



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6962+25 @ 6987.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6962+25 @ 6987.00ft
Site:	North Alamito Unit (102 & 106)	North Reference:	Grid
Well:	North Alamito Unit 102 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	1,901,167.832	1,239,107.836	36.217270000	-107.610473000
100.00	0.00	0.000	100.00	0.00	0.00	1,901,167.832	1,239,107.836	36.217270000	-107.610473000
200.00	0.00	0.000	200.00	0.00	0.00	1,901,167.832	1,239,107.836	36.217270000	-107.610473000
300.00	0.00	0.000	300.00	0.00	0.00	1,901,167.832	1,239,107.836	36.217270000	-107.610473000
400.00	0.00	0.000	400.00	0.00	0.00	1,901,167.832	1,239,107.836	36.217270000	-107.610473000
500.00	0.00	0.000	500.00	0.00	0.00	1,901,167.832	1,239,107.836	36.217270000	-107.610473000
600.00	0.00	0.000	600.00	0.00	0.00	1,901,167.832	1,239,107.836	36.217270000	-107.610473000
700.00	0.00	0.000	700.00	0.00	0.00	1,901,167.832	1,239,107.836	36.217270000	-107.610473000
800.00	0.00	0.000	800.00	0.00	0.00	1,901,167.832	1,239,107.836	36.217270000	-107.610473000
900.00	0.00	0.000	900.00	0.00	0.00	1,901,167.832	1,239,107.836	36.217270000	-107.610473000
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,901,167.832	1,239,107.836	36.217270000	-107.610473000
1,100.00	3.00	310.097	1,099.95	1.69	-2.00	1,901,169.518	1,239,105.834	36.217274553	-107.610479867
1,200.00	6.00	310.097	1,199.63	6.74	-8.00	1,901,174.571	1,239,099.833	36.217288199	-107.610500446
1,300.00	9.00	310.097	1,298.77	15.14	-17.99	1,901,182.977	1,239,089.850	36.217310900	-107.610534682
1,400.00	12.00	310.097	1,397.08	26.88	-31.93	1,901,194.713	1,239,075.911	36.217342594	-107.610582482
1,500.00	15.00	310.097	1,494.31	41.91	-49.78	1,901,209.747	1,239,058.055	36.217383194	-107.610643713
1,600.00	18.00	310.097	1,590.18	60.21	-71.50	1,901,228.037	1,239,036.332	36.217432590	-107.610718209
1,700.00	21.00	310.097	1,684.43	81.70	-97.04	1,901,249.535	1,239,010.800	36.217490645	-107.610805765
1,800.00	24.00	310.097	1,776.81	106.35	-126.31	1,901,274.180	1,238,981.530	36.217557201	-107.610906142
1,900.00	27.00	310.097	1,867.06	134.07	-159.24	1,901,301.905	1,238,948.601	36.217632075	-107.611019063
1,952.26	28.57	310.097	1,913.29	149.76	-177.87	1,901,317.595	1,238,929.966	36.217674448	-107.611082968
2,000.00	28.57	310.097	1,955.22	164.47	-195.33	1,901,332.298	1,238,912.504	36.217714154	-107.611142853
2,100.00	28.57	310.097	2,043.04	195.27	-231.91	1,901,363.098	1,238,875.924	36.217797331	-107.611268298
2,200.00	28.57	310.097	2,130.87	226.07	-268.49	1,901,393.898	1,238,839.343	36.217880508	-107.611393743
2,300.00	28.57	310.097	2,218.69	256.87	-305.07	1,901,424.697	1,238,802.763	36.217963685	-107.611519189
2,400.00	28.57	310.097	2,306.52	287.67	-341.65	1,901,455.497	1,238,766.183	36.218046861	-107.611644634
2,500.00	28.57	310.097	2,394.34	318.47	-378.23	1,901,486.297	1,238,729.603	36.218130038	-107.611770080
2,600.00	28.57	310.097	2,482.17	349.27	-414.81	1,901,517.097	1,238,693.023	36.218213214	-107.611895527
2,700.00	28.57	310.097	2,570.00	380.07	-451.39	1,901,547.897	1,238,656.442	36.218296390	-107.612020973
2,800.00	28.57	310.097	2,657.82	410.87	-487.98	1,901,578.696	1,238,619.862	36.218379566	-107.612146420
2,900.00	28.57	310.097	2,745.65	441.67	-524.56	1,901,609.496	1,238,583.282	36.218462742	-107.612271867
3,000.00	28.57	310.097	2,833.47	472.46	-561.14	1,901,640.296	1,238,546.702	36.218545917	-107.612397315
3,100.00	28.57	310.097	2,921.30	503.26	-597.72	1,901,671.096	1,238,510.122	36.218629093	-107.612522762
3,200.00	28.57	310.097	3,009.12	534.06	-634.30	1,901,701.895	1,238,473.541	36.218712268	-107.612648210
3,300.00	28.57	310.097	3,096.95	564.86	-670.88	1,901,732.695	1,238,436.961	36.218795444	-107.612773658
3,400.00	28.57	310.097	3,184.77	595.66	-707.46	1,901,763.495	1,238,400.381	36.218878619	-107.612899106
3,500.00	28.57	310.097	3,272.60	626.46	-744.04	1,901,794.295	1,238,363.801	36.218961794	-107.613024554
3,600.00	28.57	310.097	3,360.42	657.26	-780.62	1,901,825.095	1,238,327.221	36.219044968	-107.613150003
3,700.00	28.57	310.097	3,448.25	688.06	-817.20	1,901,855.894	1,238,290.640	36.219128143	-107.613275453
3,800.00	28.57	310.097	3,536.07	718.86	-853.78	1,901,886.694	1,238,254.060	36.219211318	-107.613400902
3,900.00	28.57	310.097	3,623.90	749.66	-890.36	1,901,917.494	1,238,217.480	36.219294492	-107.613526352
4,000.00	28.57	310.097	3,711.72	780.46	-926.94	1,901,948.294	1,238,180.900	36.219377666	-107.613651802
4,100.00	28.57	310.097	3,799.55	811.26	-963.52	1,901,979.094	1,238,144.320	36.219460841	-107.613777252
4,200.00	28.57	310.097	3,887.37	842.06	-1,000.10	1,902,009.893	1,238,107.739	36.219544015	-107.613902703
4,300.00	28.57	310.097	3,975.20	872.86	-1,036.68	1,902,040.693	1,238,071.159	36.219627188	-107.614028153
4,400.00	28.57	310.097	4,063.02	903.66	-1,073.26	1,902,071.493	1,238,034.579	36.219710362	-107.614153605
4,500.00	28.57	310.097	4,150.85	934.46	-1,109.84	1,902,102.293	1,237,997.999	36.219793536	-107.614279056
4,600.00	28.57	310.097	4,238.67	965.26	-1,146.42	1,902,133.092	1,237,961.419	36.219876709	-107.614404507
4,700.00	28.57	310.097	4,326.50	996.06	-1,183.00	1,902,163.892	1,237,924.838	36.219959883	-107.614529959
4,800.00	28.57	310.097	4,414.32	1,026.86	-1,219.58	1,902,194.692	1,237,888.258	36.220043056	-107.614655411
4,840.70	28.57	310.097	4,450.07	1,039.40	-1,234.47	1,902,207.227	1,237,873.371	36.220076905	-107.614706468
4,850.00	27.64	310.083	4,458.27	1,042.22	-1,237.82	1,902,210.049	1,237,870.019	36.220084525	-107.614717964
4,900.00	22.64	309.992	4,503.52	1,055.88	-1,254.08	1,902,223.709	1,237,853.763	36.220121413	-107.614773711
4,950.00	17.64	309.854	4,550.45	1,066.92	-1,267.27	1,902,234.755	1,237,840.567	36.220151238	-107.614818963
5,000.00	12.64	309.610	4,598.70	1,075.27	-1,277.31	1,902,243.102	1,237,830.532	36.220173774	-107.614853376



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6962+25 @ 6987.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6962+25 @ 6987.00ft
Site:	North Alamito Unit (102 & 106)	North Reference:	Grid
Well:	North Alamito Unit 102 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	
5,050.00	7.64	309.054	4,647.90	1,080.86	-1,284.11	1,902,248.686	1,237,823.733	36.220188849	-107.614876687	
5,100.00	2.64	306.414	4,697.69	1,083.64	-1,287.62	1,902,251.467	1,237,820.222	36.220196349	-107.614888720	
5,150.00	2.37	134.926	4,747.67	1,083.59	-1,287.81	1,902,251.421	1,237,820.026	36.220196216	-107.614889382	
5,200.00	7.37	131.874	4,797.47	1,080.72	-1,284.69	1,902,248.550	1,237,823.146	36.220188451	-107.614878669	
5,250.00	12.36	131.284	4,846.72	1,075.05	-1,278.28	1,902,242.875	1,237,829.559	36.220173114	-107.614856662	
5,300.00	17.36	131.031	4,895.03	1,066.61	-1,268.62	1,902,234.440	1,237,839.216	36.220150321	-107.614823529	
5,350.00	22.36	130.889	4,942.04	1,055.48	-1,255.80	1,902,223.308	1,237,852.043	36.220120246	-107.614779522	
5,400.00	27.36	130.796	4,987.39	1,041.74	-1,239.90	1,902,209.565	1,237,867.943	36.220083118	-107.614724975	
5,450.00	32.36	130.730	5,030.74	1,025.49	-1,221.04	1,902,193.315	1,237,886.795	36.220039218	-107.614660305	
5,500.00	37.36	130.681	5,071.75	1,006.85	-1,199.38	1,902,174.682	1,237,908.455	36.219988882	-107.614586003	
5,550.00	42.36	130.641	5,110.12	985.98	-1,175.08	1,902,153.807	1,237,932.759	36.219932492	-107.614502634	
5,600.00	47.36	130.608	5,145.55	963.02	-1,148.32	1,902,130.850	1,237,959.520	36.219870478	-107.614410834	
5,650.00	52.36	130.581	5,177.77	938.15	-1,119.30	1,902,105.985	1,237,988.537	36.219803311	-107.614311300	
5,700.00	57.36	130.556	5,206.53	911.57	-1,088.25	1,902,079.401	1,238,019.588	36.219731502	-107.614204792	
5,726.37	60.00	130.545	5,220.24	896.93	-1,071.14	1,902,064.757	1,238,036.703	36.219691946	-107.614146084	
5,786.37	60.00	130.545	5,250.24	863.15	-1,031.65	1,902,030.980	1,238,076.188	36.219600708	-107.614010644	
5,800.00	61.36	130.545	5,256.91	855.42	-1,022.62	1,902,023.255	1,238,085.220	36.219579840	-107.613979667	
5,850.00	66.36	130.545	5,278.93	826.26	-988.52	1,901,994.086	1,238,119.318	36.219501048	-107.613862704	
5,900.00	71.36	130.545	5,296.96	795.95	-953.09	1,901,963.780	1,238,154.746	36.219419186	-107.613741185	
5,950.00	76.36	130.545	5,310.85	764.74	-916.61	1,901,932.568	1,238,191.232	36.219334878	-107.613616033	
6,000.00	81.36	130.545	5,320.50	732.86	-879.34	1,901,900.688	1,238,228.499	36.219248764	-107.613488202	
6,050.00	86.36	130.545	5,325.85	700.55	-841.57	1,901,868.383	1,238,266.265	36.219161500	-107.613358665	
6,089.04	90.27	130.545	5,327.00	675.19	-811.93	1,901,843.024	1,238,295.909	36.219093001	-107.613256984	
6,100.00	90.27	130.545	5,326.94	668.07	-803.60	1,901,835.897	1,238,304.241	36.219073748	-107.613228404	
6,200.00	90.27	130.545	5,326.48	603.06	-727.61	1,901,770.893	1,238,380.230	36.218898159	-107.612967757	
6,300.00	90.27	130.545	5,326.01	538.06	-651.62	1,901,705.890	1,238,456.218	36.218722570	-107.612707113	
6,400.00	90.27	130.545	5,325.55	473.06	-575.63	1,901,640.887	1,238,532.207	36.218546981	-107.612446468	
6,500.00	90.27	130.545	5,325.08	408.05	-499.64	1,901,575.883	1,238,608.196	36.218371390	-107.612185825	
6,600.00	90.27	130.545	5,324.62	343.05	-423.65	1,901,510.880	1,238,684.185	36.218195800	-107.611925183	
6,700.00	90.27	130.545	5,324.15	278.05	-347.66	1,901,445.877	1,238,760.174	36.218020208	-107.611664543	
6,800.00	90.27	130.545	5,323.69	213.04	-271.67	1,901,380.873	1,238,836.163	36.217844616	-107.611403903	
6,900.00	90.27	130.545	5,323.22	148.04	-195.69	1,901,315.870	1,238,912.152	36.217669023	-107.611143265	
7,000.00	90.27	130.545	5,322.76	83.03	-119.70	1,901,250.867	1,238,988.140	36.217493430	-107.610882627	
7,100.00	90.27	130.545	5,322.29	18.03	-43.71	1,901,185.863	1,239,064.129	36.217317836	-107.610621991	
7,200.00	90.27	130.545	5,321.83	-46.97	32.28	1,901,120.860	1,239,140.118	36.217142242	-107.610361356	
7,300.00	90.27	130.545	5,321.36	-111.98	108.27	1,901,055.856	1,239,216.107	36.216966647	-107.610100722	
7,400.00	90.27	130.545	5,320.90	-176.98	184.26	1,900,990.853	1,239,292.096	36.216791051	-107.609840090	
7,500.00	90.27	130.545	5,320.43	-241.98	260.25	1,900,925.850	1,239,368.085	36.216615455	-107.609579458	
7,600.00	90.27	130.545	5,319.97	-306.99	336.24	1,900,860.846	1,239,444.074	36.216439858	-107.609318828	
7,700.00	90.27	130.545	5,319.50	-371.99	412.23	1,900,795.843	1,239,520.062	36.216264260	-107.609058199	
7,800.00	90.27	130.545	5,319.04	-436.99	488.22	1,900,730.840	1,239,596.051	36.216088662	-107.608797571	
7,900.00	90.27	130.545	5,318.57	-502.00	564.20	1,900,665.836	1,239,672.040	36.215913064	-107.608536944	
8,000.00	90.27	130.545	5,318.10	-567.00	640.19	1,900,600.833	1,239,748.029	36.215737464	-107.608276318	
8,100.00	90.27	130.545	5,317.64	-632.00	716.18	1,900,535.830	1,239,824.018	36.215561865	-107.608015694	
8,200.00	90.27	130.545	5,317.17	-697.01	792.17	1,900,470.826	1,239,900.007	36.215386264	-107.607755070	
8,300.00	90.27	130.545	5,316.71	-762.01	868.16	1,900,405.823	1,239,975.996	36.215210663	-107.607494448	
8,400.00	90.27	130.545	5,316.24	-827.01	944.15	1,900,340.820	1,240,051.984	36.215035061	-107.607233827	
8,500.00	90.27	130.545	5,315.78	-892.02	1,020.14	1,900,275.816	1,240,127.973	36.214859459	-107.606973207	
8,600.00	90.27	130.545	5,315.31	-957.02	1,096.13	1,900,210.813	1,240,203.962	36.214683856	-107.606712589	
8,700.00	90.27	130.545	5,314.85	-1,022.02	1,172.12	1,900,145.809	1,240,279.951	36.214508253	-107.606451971	
8,800.00	90.27	130.545	5,314.38	-1,087.03	1,248.11	1,900,080.806	1,240,355.940	36.214332649	-107.606191355	
8,900.00	90.27	130.545	5,313.92	-1,152.03	1,324.10	1,900,015.803	1,240,431.929	36.214157044	-107.605930739	
9,000.00	90.27	130.545	5,313.45	-1,217.04	1,400.08	1,899,950.799	1,240,507.917	36.213981439	-107.605670125	
9,100.00	90.27	130.545	5,312.99	-1,282.04	1,476.07	1,899,885.796	1,240,583.906	36.213805833	-107.605409512	
9,200.00	90.27	130.545	5,312.52	-1,347.04	1,552.06	1,899,820.793	1,240,659.895	36.213630227	-107.605148901	



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6962+25 @ 6987.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6962+25 @ 6987.00ft
Site:	North Alamito Unit (102 & 106)	North Reference:	Grid
Well:	North Alamito Unit 102 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	
9,300.00	90.27	130.545	5,312.06	-1,412.05	1,628.05	1,899,755.789	1,240,735.884	36.213454620	-107.604888290	
9,400.00	90.27	130.545	5,311.59	-1,477.05	1,704.04	1,899,690.786	1,240,811.873	36.213279012	-107.604627681	
9,500.00	90.27	130.545	5,311.13	-1,542.05	1,780.03	1,899,625.783	1,240,887.862	36.213103404	-107.604367072	
9,600.00	90.27	130.545	5,310.66	-1,607.06	1,856.02	1,899,560.779	1,240,963.851	36.212927795	-107.604106465	
9,700.00	90.27	130.545	5,310.20	-1,672.06	1,932.01	1,899,495.776	1,241,039.839	36.212752186	-107.603845859	
9,800.00	90.27	130.545	5,309.73	-1,737.06	2,008.00	1,899,430.772	1,241,115.828	36.212576576	-107.603585254	
9,900.00	90.27	130.545	5,309.26	-1,802.07	2,083.99	1,899,365.769	1,241,191.817	36.212400965	-107.603324651	
10,000.00	90.27	130.545	5,308.80	-1,867.07	2,159.97	1,899,300.766	1,241,267.806	36.212225354	-107.603064048	
10,100.00	90.27	130.545	5,308.33	-1,932.07	2,235.96	1,899,235.762	1,241,343.795	36.212049742	-107.602803447	
10,200.00	90.27	130.545	5,307.87	-1,997.08	2,311.95	1,899,170.759	1,241,419.784	36.211874130	-107.602542847	
10,300.00	90.27	130.545	5,307.40	-2,062.08	2,387.94	1,899,105.756	1,241,495.773	36.211698517	-107.602282248	
10,400.00	90.27	130.545	5,306.94	-2,127.08	2,463.93	1,899,040.752	1,241,571.761	36.211522903	-107.602021650	
10,500.00	90.27	130.545	5,306.47	-2,192.09	2,539.92	1,898,975.749	1,241,647.750	36.211347289	-107.601761053	
10,600.00	90.27	130.545	5,306.01	-2,257.09	2,615.91	1,898,910.746	1,241,723.739	36.211171674	-107.601500458	
10,700.00	90.27	130.545	5,305.54	-2,322.09	2,691.90	1,898,845.742	1,241,799.728	36.210996059	-107.601239863	
10,800.00	90.27	130.545	5,305.08	-2,387.10	2,767.89	1,898,780.739	1,241,875.717	36.210820443	-107.600979270	
10,900.00	90.27	130.545	5,304.61	-2,452.10	2,843.88	1,898,715.735	1,241,951.706	36.210644826	-107.600718678	
11,000.00	90.27	130.545	5,304.15	-2,517.11	2,919.86	1,898,650.732	1,242,027.695	36.210469209	-107.600458087	
11,100.00	90.27	130.545	5,303.68	-2,582.11	2,995.85	1,898,585.729	1,242,103.683	36.210293591	-107.600197497	
11,200.00	90.27	130.545	5,303.22	-2,647.11	3,071.84	1,898,520.725	1,242,179.672	36.210117973	-107.599936909	
11,300.00	90.27	130.545	5,302.75	-2,712.12	3,147.83	1,898,455.722	1,242,255.661	36.209942354	-107.599676321	
11,400.00	90.27	130.545	5,302.29	-2,777.12	3,223.82	1,898,390.719	1,242,331.650	36.209766735	-107.599415735	
11,500.00	90.27	130.545	5,301.82	-2,842.12	3,299.81	1,898,325.715	1,242,407.639	36.209591114	-107.599155150	
11,600.00	90.27	130.545	5,301.36	-2,907.13	3,375.80	1,898,260.712	1,242,483.628	36.209415494	-107.598894566	
11,700.00	90.27	130.545	5,300.89	-2,972.13	3,451.79	1,898,195.709	1,242,559.616	36.209239872	-107.598633983	
11,800.00	90.27	130.545	5,300.42	-3,037.13	3,527.78	1,898,130.705	1,242,635.605	36.209064250	-107.598373402	
11,900.00	90.27	130.545	5,299.96	-3,102.14	3,603.77	1,898,065.702	1,242,711.594	36.208888628	-107.598112821	
12,000.00	90.27	130.545	5,299.49	-3,167.14	3,679.75	1,898,000.698	1,242,787.583	36.208713005	-107.597852242	
12,100.00	90.27	130.545	5,299.03	-3,232.14	3,755.74	1,897,935.695	1,242,863.572	36.208537381	-107.597591664	
12,200.00	90.27	130.545	5,298.56	-3,297.15	3,831.73	1,897,870.692	1,242,939.561	36.208361757	-107.597331087	
12,300.00	90.27	130.545	5,298.10	-3,362.15	3,907.72	1,897,805.688	1,243,015.550	36.208186132	-107.597070511	
12,400.00	90.27	130.545	5,297.63	-3,427.15	3,983.71	1,897,740.685	1,243,091.538	36.208010506	-107.596809936	
12,500.00	90.27	130.545	5,297.17	-3,492.16	4,059.70	1,897,675.682	1,243,167.527	36.207834880	-107.596549363	
12,600.00	90.27	130.545	5,296.70	-3,557.16	4,135.69	1,897,610.678	1,243,243.516	36.207659253	-107.596288790	
12,700.00	90.27	130.545	5,296.24	-3,622.16	4,211.68	1,897,545.675	1,243,319.505	36.207483626	-107.596028219	
12,800.00	90.27	130.545	5,295.77	-3,687.17	4,287.67	1,897,480.672	1,243,395.494	36.207307998	-107.595767649	
12,900.00	90.27	130.545	5,295.31	-3,752.17	4,363.66	1,897,415.668	1,243,471.483	36.207132370	-107.595507080	
13,000.00	90.27	130.545	5,294.84	-3,817.18	4,439.64	1,897,350.665	1,243,547.472	36.206956740	-107.595246512	
13,100.00	90.27	130.545	5,294.38	-3,882.18	4,515.63	1,897,285.662	1,243,623.460	36.206781111	-107.594985946	
13,200.00	90.27	130.545	5,293.91	-3,947.18	4,591.62	1,897,220.658	1,243,699.449	36.206605480	-107.594725380	
13,300.00	90.27	130.545	5,293.45	-4,012.19	4,667.61	1,897,155.655	1,243,775.438	36.206429850	-107.594464816	
13,400.00	90.27	130.545	5,292.98	-4,077.19	4,743.60	1,897,090.651	1,243,851.427	36.206254218	-107.594204253	
13,500.00	90.27	130.545	5,292.52	-4,142.19	4,819.59	1,897,025.648	1,243,927.416	36.206078586	-107.593943691	
13,600.00	90.27	130.545	5,292.05	-4,207.20	4,895.58	1,896,960.645	1,244,003.405	36.205902953	-107.593683131	
13,700.00	90.27	130.545	5,291.58	-4,272.20	4,971.57	1,896,895.641	1,244,079.393	36.205727320	-107.593422571	
13,800.00	90.27	130.545	5,291.12	-4,337.20	5,047.56	1,896,830.638	1,244,155.382	36.205551686	-107.593162012	
13,900.00	90.27	130.545	5,290.65	-4,402.21	5,123.55	1,896,765.635	1,244,231.371	36.205376052	-107.592901455	
14,000.00	90.27	130.545	5,290.19	-4,467.21	5,199.53	1,896,700.631	1,244,307.360	36.205200416	-107.592640899	
14,100.00	90.27	130.545	5,289.72	-4,532.21	5,275.52	1,896,635.628	1,244,383.349	36.205024781	-107.592380344	
14,200.00	90.27	130.545	5,289.26	-4,597.22	5,351.51	1,896,570.625	1,244,459.338	36.204849145	-107.592119790	
14,300.00	90.27	130.545	5,288.79	-4,662.22	5,427.50	1,896,505.621	1,244,535.327	36.204673508	-107.591859238	
14,400.00	90.27	130.545	5,288.33	-4,727.22	5,503.49	1,896,440.618	1,244,611.315	36.204497870	-107.591598686	
14,500.00	90.27	130.545	5,287.86	-4,792.23	5,579.48	1,896,375.614	1,244,687.304	36.204322232	-107.591338136	
14,600.00	90.27	130.545	5,287.40	-4,857.23	5,655.47	1,896,310.611	1,244,763.293	36.204146593	-107.591077587	
14,700.00	90.27	130.545	5,286.93	-4,922.23	5,731.46	1,896,245.608	1,244,839.282	36.203970954	-107.590817039	



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6962+25 @ 6987.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6962+25 @ 6987.00ft
Site:	North Alamito Unit (102 & 106)	North Reference:	Grid
Well:	North Alamito Unit 102 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
14,800.00	90.27	130.545	5,286.47	-4,987.24	5,807.45	1,896,180.604	1,244,915.271	36.203795314	-107.590556492
14,900.00	90.27	130.545	5,286.00	-5,052.24	5,883.44	1,896,115.601	1,244,991.260	36.203619674	-107.590295946
15,000.00	90.27	130.545	5,285.54	-5,117.24	5,959.42	1,896,050.598	1,245,067.249	36.203444033	-107.590035402
15,100.00	90.27	130.545	5,285.07	-5,182.25	6,035.41	1,895,985.594	1,245,143.237	36.203268391	-107.589774858
15,200.00	90.27	130.545	5,284.61	-5,247.25	6,111.40	1,895,920.591	1,245,219.226	36.203092749	-107.589514316
15,300.00	90.27	130.545	5,284.14	-5,312.26	6,187.39	1,895,855.588	1,245,295.215	36.202917106	-107.589253775
15,330.24	90.27	130.545	5,284.00	-5,331.91	6,210.37	1,895,835.934	1,245,318.191	36.202864000	-107.589175000

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
North Alamito 102 BHL �	0.00	360.000	5,284.00	-5,331.91	6,210.37	1,895,835.934	1,245,318.191	36.202864000	-107.589175000
- plan hits target center									
- Point									
North Alamito 102 POE :	0.00	360.000	5,327.00	675.19	-811.93	1,901,843.024	1,238,295.904	36.219093000	-107.613257000
- plan misses target center by 0.01ft at 6089.03ft MD (5327.00 TVD, 675.20 N, -811.93 E)									
- Point									

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
3,618.88	3,377.00	9 5/8" Csg		9-5/8	12-1/4



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6962+25 @ 6987.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6962+25 @ 6987.00ft
Site:	North Alamito Unit (102 & 106)	North Reference:	Grid
Well:	North Alamito Unit 102 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,072.02	1,072.01	Ojo Alamo		-0.27	130.545	
1,187.34	1,187.04	Kirtland		-0.27	130.545	
1,359.27	1,357.16	Fruitland		-0.27	130.545	
1,708.77	1,692.61	Pictured Cliffs		-0.27	130.545	
1,878.60	1,847.94	Lewis		-0.27	130.545	
2,163.22	2,098.57	Chacra_A		-0.27	130.545	
3,401.81	3,186.36	Cliff House_Basal		-0.27	130.545	
3,453.18	3,231.48	Menefee		-0.27	130.545	
4,400.67	4,063.61	Point Lookout		-0.27	130.545	
4,646.11	4,279.17	Mancos		-0.27	130.545	
5,016.54	4,614.88	MNCS_A		-0.27	130.545	
5,117.26	4,714.93	MNCS_B		-0.27	130.545	
5,204.47	4,801.91	MNCS_C		-0.27	130.545	
5,250.16	4,846.87	MNCS_Cms		-0.27	130.545	
5,383.54	4,972.67	MNCS_D		-0.27	130.545	
5,516.00	5,084.33	MNCS_E		-0.27	130.545	
5,583.39	5,134.12	MNCS_F		-0.27	130.545	
5,703.99	5,208.67	MNCS_G		-0.27	130.545	
5,829.00	5,270.16	MNCS_H		-0.27	130.545	
5,937.16	5,307.68	MNCS_I		-0.27	130.545	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build	
1,952.26	1,913.29	149.76	-177.87	Begin 28.57° tangent	
4,840.70	4,450.07	1,039.40	-1,234.47	Begin 10°/100' build/turn	
5,726.37	5,220.24	896.93	-1,071.14	Begin 60.00° tangent	
5,786.37	5,250.24	863.15	-1,031.65	Begin 10°/100' build	
6,089.04	5,327.00	675.19	-811.93	Begin 90.27° lateral	
15,330.24	5,284.00	-5,331.91	6,210.37	PBHL @ 15330.24 MD 5284.00 TVD	



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+25 @ 6987.00ft
Reference Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+25 @ 6987.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	North Alamito Unit 102 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:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,733.02ft	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	15,330.24	rev0 (Original Hole)	MWD	OWSG MWD - Standard	

Summary						
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	7,406.94	6,399.50	1,200.25	1,103.38	12.390	CC
North Alamito Unit 006 H - Original Hole - rev0	15,330.24	14,323.74	1,200.59	774.00	2.814	ES, SF
North Alamito Unit (102 & 106)						
North Alamito Unit 106 H - Original Hole - rev0	500.00	500.00	19.87	16.73	6.333	CC, ES
North Alamito Unit 106 H - Original Hole - rev0	15,330.24	17,680.76	1,200.14	697.17	2.386	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
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation Factor	
5,800.00	5,256.91	5,800.00	5,024.32	35.05	53.83	-56.94	1,054.71	651.59	1,711.75	1,662.26	49.48	34.592
5,900.00	5,296.96	5,850.00	5,068.03	35.26	53.80	-63.26	1,032.93	662.21	1,658.49	1,608.13	50.37	32.929
6,000.00	5,320.50	5,850.00	5,068.03	35.58	53.80	-69.56	1,032.93	662.21	1,601.86	1,550.18	51.68	30.997
6,100.00	5,326.94	5,873.64	5,088.08	36.01	53.78	-76.35	1,022.10	668.52	1,543.89	1,490.26	53.63	28.789
6,200.00	5,326.48	5,900.00	5,109.90	36.56	53.75	-77.28	1,009.66	676.50	1,488.29	1,432.27	56.01	26.571
6,300.00	5,326.01	5,900.00	5,109.90	37.25	53.75	-77.28	1,009.66	676.50	1,436.73	1,377.84	58.89	24.398
6,400.00	5,325.55	5,929.88	5,133.91	38.08	53.72	-78.32	995.12	686.73	1,389.59	1,327.60	61.99	22.417
6,500.00	5,325.08	5,950.00	5,149.61	39.04	53.70	-79.00	985.09	694.33	1,347.37	1,281.90	65.47	20.579
6,600.00	5,324.62	5,977.83	5,170.66	40.11	53.68	-79.94	970.92	705.75	1,310.28	1,241.12	69.16	18.947
6,700.00	5,324.15	6,000.00	5,186.85	41.28	53.66	-80.67	959.40	715.58	1,278.61	1,205.51	73.11	17.490
6,800.00	5,323.69	6,050.00	5,221.34	42.56	53.62	-82.25	932.78	740.09	1,252.61	1,175.83	76.78	16.315
6,900.00	5,323.22	6,071.13	5,235.02	43.93	53.61	-82.89	921.31	751.38	1,231.96	1,151.05	80.92	15.225
7,000.00	5,322.76	6,100.00	5,252.82	45.38	53.60	-83.72	905.45	767.66	1,217.14	1,132.26	84.89	14.338
7,100.00	5,322.29	6,150.00	5,281.04	46.90	53.59	-85.05	877.60	798.09	1,207.62	1,119.22	88.40	13.660
7,200.00	5,321.83	6,218.40	5,315.57	48.49	53.61	-86.71	839.11	842.87	1,202.91	1,111.42	91.49	13.148
7,300.00	5,321.36	6,300.00	5,352.77	50.14	53.66	-88.50	791.95	898.01	1,200.73	1,106.47	94.26	12.739
7,400.00	5,320.90	6,392.77	5,382.22	51.84	53.77	-89.92	734.83	964.78	1,200.25	1,103.54	96.71	12.411
7,406.94	5,320.86	6,399.50	5,383.80	51.97	53.78	-90.00	730.58	969.75	1,200.25	1,103.38	96.87	12.390 CC
7,500.00	5,320.43	6,492.72	5,397.66	53.60	53.93	-90.68	670.73	1,039.72	1,200.34	1,101.35	98.99	12.126
7,600.00	5,319.97	6,593.77	5,398.76	55.40	54.14	-90.75	605.06	1,116.49	1,200.36	1,099.06	101.30	11.850
7,700.00	5,319.50	6,693.77	5,398.40	57.24	54.41	-90.76	540.06	1,192.48	1,200.36	1,096.59	103.77	11.567

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 (102 & 106)
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+25 @ 6987.00ft
Reference Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+25 @ 6987.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	North Alamito Unit 102 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												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
7,800.00	5,319.04	6,793.77	5,398.04	59.12	54.75	-90.76	475.05	1,268.47	1,200.36	1,093.97	106.39	11.282	
7,900.00	5,318.57	6,893.77	5,397.69	61.03	55.17	-90.77	410.05	1,344.46	1,200.37	1,091.21	109.15	10.997	
8,000.00	5,318.10	6,993.77	5,397.33	62.97	55.68	-90.77	345.05	1,420.45	1,200.37	1,088.33	112.04	10.714	
8,100.00	5,317.64	7,093.77	5,396.97	64.94	56.26	-90.78	280.04	1,496.44	1,200.37	1,085.32	115.05	10.434	
8,200.00	5,317.17	7,193.77	5,396.61	66.94	56.94	-90.78	215.04	1,572.43	1,200.38	1,082.20	118.17	10.158	
8,300.00	5,316.71	7,293.77	5,396.25	68.95	57.70	-90.79	150.04	1,648.42	1,200.38	1,078.98	121.40	9.888	
8,400.00	5,316.24	7,393.77	5,395.89	70.99	58.54	-90.79	85.04	1,724.41	1,200.38	1,075.66	124.72	9.624	
8,500.00	5,315.78	7,493.77	5,395.53	73.05	59.48	-90.80	20.03	1,800.40	1,200.38	1,072.24	128.14	9.368	
8,600.00	5,315.31	7,593.77	5,395.17	75.13	60.50	-90.80	-44.97	1,876.39	1,200.39	1,068.75	131.64	9.119	
8,700.00	5,314.85	7,693.77	5,394.81	77.22	61.61	-90.81	-109.97	1,952.38	1,200.39	1,065.17	135.22	8.878	
8,800.00	5,314.38	7,793.77	5,394.45	79.33	62.80	-90.81	-174.97	2,028.37	1,200.39	1,061.53	138.86	8.644	
8,900.00	5,313.92	7,893.77	5,394.09	81.45	64.08	-90.82	-239.98	2,104.36	1,200.39	1,057.82	142.58	8.419	
9,000.00	5,313.45	7,993.77	5,393.73	83.59	65.42	-90.82	-304.98	2,180.35	1,200.40	1,054.04	146.35	8.202	
9,100.00	5,312.99	8,093.77	5,393.38	85.73	66.84	-90.83	-369.98	2,256.34	1,200.40	1,050.21	150.19	7.993	
9,200.00	5,312.52	8,193.77	5,393.02	87.89	68.32	-90.84	-434.99	2,332.33	1,200.40	1,046.33	154.07	7.791	
9,300.00	5,312.06	8,293.77	5,392.66	90.06	69.87	-90.84	-499.99	2,408.32	1,200.41	1,042.40	158.00	7.597	
9,400.00	5,311.59	8,393.77	5,392.30	92.24	71.47	-90.85	-564.99	2,484.31	1,200.41	1,038.43	161.98	7.411	
9,500.00	5,311.13	8,493.77	5,391.94	94.42	73.13	-90.85	-629.99	2,560.30	1,200.41	1,034.42	166.00	7.232	
9,600.00	5,310.66	8,593.77	5,391.58	96.62	74.83	-90.86	-695.00	2,636.29	1,200.41	1,030.36	170.05	7.059	
9,700.00	5,310.20	8,693.77	5,391.22	98.82	76.58	-90.86	-760.00	2,712.28	1,200.42	1,026.27	174.14	6.893	
9,800.00	5,309.73	8,793.77	5,390.86	101.03	78.37	-90.87	-825.00	2,788.27	1,200.42	1,022.15	178.27	6.734	
9,900.00	5,309.26	8,893.77	5,390.50	103.24	80.19	-90.87	-890.01	2,864.26	1,200.42	1,018.00	182.42	6.580	
10,000.00	5,308.80	8,993.77	5,390.14	105.46	82.06	-90.88	-955.01	2,940.25	1,200.43	1,013.82	186.61	6.433	
10,100.00	5,308.33	9,093.77	5,389.78	107.69	83.95	-90.88	-1,020.01	3,016.24	1,200.43	1,009.61	190.82	6.291	
10,200.00	5,307.87	9,193.77	5,389.42	109.93	85.87	-90.89	-1,085.01	3,092.23	1,200.43	1,005.38	195.05	6.154	
10,300.00	5,307.40	9,293.77	5,389.07	112.17	87.81	-90.89	-1,150.02	3,168.22	1,200.43	1,001.12	199.31	6.023	
10,400.00	5,306.94	9,393.77	5,388.71	114.41	89.79	-90.90	-1,215.02	3,244.21	1,200.44	996.85	203.59	5.896	
10,500.00	5,306.47	9,493.77	5,388.35	116.66	91.78	-90.90	-1,280.02	3,320.20	1,200.44	992.55	207.89	5.774	
10,600.00	5,306.01	9,593.77	5,387.99	118.91	93.79	-90.91	-1,345.02	3,396.19	1,200.44	988.23	212.21	5.657	
10,700.00	5,305.54	9,693.77	5,387.63	121.17	95.83	-90.91	-1,410.03	3,472.18	1,200.45	983.90	216.55	5.544	
10,800.00	5,305.08	9,793.77	5,387.27	123.43	97.88	-90.92	-1,475.03	3,548.17	1,200.45	979.55	220.90	5.434	
10,900.00	5,304.61	9,893.77	5,386.91	125.69	99.94	-90.92	-1,540.03	3,624.16	1,200.45	975.18	225.27	5.329	
11,000.00	5,304.15	9,993.77	5,386.55	127.96	102.02	-90.93	-1,605.04	3,700.15	1,200.46	970.80	229.65	5.227	
11,100.00	5,303.68	10,093.77	5,386.19	130.23	104.12	-90.93	-1,670.04	3,776.14	1,200.46	966.41	234.05	5.129	
11,200.00	5,303.22	10,193.77	5,385.83	132.51	106.23	-90.94	-1,735.04	3,852.13	1,200.46	962.00	238.46	5.034	
11,300.00	5,302.75	10,293.77	5,385.47	134.78	108.35	-90.94	-1,800.04	3,928.12	1,200.46	957.58	242.88	4.943	
11,400.00	5,302.29	10,393.77	5,385.11	137.06	110.48	-90.95	-1,865.05	4,004.11	1,200.47	953.15	247.32	4.854	
11,500.00	5,301.82	10,493.77	5,384.76	139.35	112.62	-90.95	-1,930.05	4,080.10	1,200.47	948.71	251.76	4.768	
11,600.00	5,301.36	10,593.77	5,384.40	141.63	114.77	-90.96	-1,995.05	4,156.09	1,200.47	944.26	256.22	4.685	
11,700.00	5,300.89	10,693.77	5,384.04	143.92	116.93	-90.96	-2,060.06	4,232.08	1,200.48	939.80	260.68	4.605	
11,800.00	5,300.42	10,793.77	5,383.68	146.21	119.10	-90.97	-2,125.06	4,308.07	1,200.48	935.32	265.15	4.527	
11,900.00	5,299.96	10,893.77	5,383.32	148.50	121.28	-90.97	-2,190.06	4,384.06	1,200.48	930.84	269.64	4.452	
12,000.00	5,299.49	10,993.77	5,382.96	150.80	123.46	-90.98	-2,255.06	4,460.05	1,200.49	926.36	274.13	4.379	
12,100.00	5,299.03	11,093.77	5,382.60	153.09	125.65	-90.98	-2,320.07	4,536.04	1,200.49	921.86	278.63	4.309	
12,200.00	5,298.56	11,193.77	5,382.24	155.39	127.85	-90.99	-2,385.07	4,612.03	1,200.49	917.36	283.14	4.240	
12,300.00	5,298.10	11,293.77	5,381.88	157.69	130.05	-90.99	-2,450.07	4,688.02	1,200.50	912.85	287.65	4.173	
12,400.00	5,297.63	11,393.77	5,381.52	159.99	132.26	-91.00	-2,515.07	4,764.01	1,200.50	908.33	292.17	4.109	
12,500.00	5,297.17	11,493.77	5,381.16	162.30	134.48	-91.00	-2,580.08	4,840.00	1,200.50	903.80	296.70	4.046	
12,600.00	5,296.70	11,593.77	5,380.80	164.60	136.70	-91.01	-2,645.08	4,915.99	1,200.50	899.27	301.23	3.985	
12,700.00	5,296.24	11,693.77	5,380.45	166.91	138.92	-91.01	-2,710.08	4,991.98	1,200.51	894.74	305.77	3.926	
12,800.00	5,295.77	11,793.77	5,380.09	169.22	141.16	-91.02	-2,775.09	5,067.97	1,200.51	890.20	310.31	3.869	
12,900.00	5,295.31	11,893.77	5,379.73	171.53	143.39	-91.02	-2,840.09	5,143.96	1,200.51	885.65	314.86	3.813	

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 (102 & 106)
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+25 @ 6987.00ft
Reference Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+25 @ 6987.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	North Alamito Unit 102 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													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Reference Depth (ft)	Offset Measured Depth (ft)	Offset 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	
13,000.00	5,294.84	11,993.77	5,379.37	173.84	145.63	-91.03	-2,905.09	5,219.95	1,200.52	881.10	319.42	3.758		
13,100.00	5,294.38	12,093.77	5,379.01	176.15	147.87	-91.03	-2,970.09	5,295.94	1,200.52	876.54	323.98	3.706		
13,200.00	5,293.91	12,193.77	5,378.65	178.47	150.12	-91.04	-3,035.10	5,371.93	1,200.52	871.98	328.54	3.654		
13,300.00	5,293.45	12,293.77	5,378.29	180.78	152.37	-91.04	-3,100.10	5,447.92	1,200.53	867.41	333.11	3.604		
13,400.00	5,292.98	12,393.77	5,377.93	183.10	154.63	-91.05	-3,165.10	5,523.91	1,200.53	862.84	337.69	3.555		
13,500.00	5,292.52	12,493.77	5,377.57	185.41	156.88	-91.05	-3,230.11	5,599.90	1,200.53	858.27	342.26	3.508		
13,600.00	5,292.05	12,593.77	5,377.21	187.73	159.14	-91.06	-3,295.11	5,675.89	1,200.54	853.69	346.84	3.461		
13,700.00	5,291.58	12,693.77	5,376.85	190.05	161.41	-91.06	-3,360.11	5,751.88	1,200.54	849.11	351.43	3.416		
13,800.00	5,291.12	12,793.77	5,376.50	192.37	163.67	-91.07	-3,425.11	5,827.87	1,200.54	844.52	356.02	3.372		
13,900.00	5,290.65	12,893.77	5,376.14	194.69	165.94	-91.07	-3,490.12	5,903.86	1,200.55	839.94	360.61	3.329		
14,000.00	5,290.19	12,993.77	5,375.78	197.02	168.22	-91.08	-3,555.12	5,979.85	1,200.55	835.34	365.21	3.287		
14,100.00	5,289.72	13,093.77	5,375.42	199.34	170.49	-91.08	-3,620.12	6,055.84	1,200.55	830.75	369.81	3.246		
14,200.00	5,289.26	13,193.77	5,375.06	201.66	172.77	-91.09	-3,685.12	6,131.83	1,200.56	826.15	374.41	3.207		
14,300.00	5,288.79	13,293.77	5,374.70	203.99	175.05	-91.09	-3,750.13	6,207.82	1,200.56	821.55	379.01	3.168		
14,400.00	5,288.33	13,393.77	5,374.34	206.31	177.33	-91.10	-3,815.13	6,283.81	1,200.56	816.94	383.62	3.130		
14,500.00	5,287.86	13,493.77	5,373.98	208.64	179.61	-91.10	-3,880.13	6,359.80	1,200.57	812.34	388.23	3.092		
14,600.00	5,287.40	13,593.77	5,373.62	210.97	181.90	-91.11	-3,945.14	6,435.79	1,200.57	807.73	392.84	3.056		
14,700.00	5,286.93	13,693.77	5,373.26	213.30	184.19	-91.11	-4,010.14	6,511.78	1,200.57	803.11	397.46	3.021		
14,800.00	5,286.47	13,793.77	5,372.90	215.63	186.48	-91.12	-4,075.14	6,587.77	1,200.58	798.50	402.08	2.986		
14,900.00	5,286.00	13,893.77	5,372.54	217.96	188.77	-91.12	-4,140.14	6,663.76	1,200.58	793.88	406.70	2.952		
15,000.00	5,285.54	13,993.77	5,372.19	220.29	191.06	-91.13	-4,205.15	6,739.76	1,200.58	789.26	411.32	2.919		
15,100.00	5,285.07	14,093.77	5,371.83	222.62	193.36	-91.13	-4,270.15	6,815.75	1,200.59	784.64	415.95	2.886		
15,200.00	5,284.61	14,193.77	5,371.47	224.95	195.65	-91.14	-4,335.15	6,891.74	1,200.59	780.02	420.57	2.855		
15,300.00	5,284.14	14,293.77	5,371.11	227.28	197.95	-91.14	-4,400.16	6,967.73	1,200.59	775.39	425.20	2.824		
15,300.48	5,284.14	14,294.24	5,371.11	227.29	197.96	-91.14	-4,400.46	6,968.09	1,200.59	775.37	425.22	2.823		
15,330.24	5,284.00	14,323.74	5,371.00	227.98	198.64	-91.15	-4,419.64	6,990.51	1,200.59	774.00	426.60	2.814 ES, 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 (102 & 106)
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+25 @ 6987.00ft
Reference Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+25 @ 6987.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	North Alamito Unit 102 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 (102 & 106) - North Alamito Unit 106 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)	Offset Measured Depth (ft)	Offset 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	-12.94	19.36	-4.45	19.87				
100.00	100.00	100.00	100.00	0.13	0.13	-12.94	19.36	-4.45	19.87	19.60	0.27	73.889	
200.00	200.00	200.00	200.00	0.49	0.49	-12.94	19.36	-4.45	19.87	18.88	0.99	20.152	
300.00	300.00	300.00	300.00	0.85	0.85	-12.94	19.36	-4.45	19.87	18.16	1.70	11.667	
400.00	400.00	400.00	400.00	1.21	1.21	-12.94	19.36	-4.45	19.87	17.45	2.42	8.210	
500.00	500.00	500.00	500.00	1.57	1.57	-12.94	19.36	-4.45	19.87	16.73	3.14	6.333 CC, ES	
600.00	600.00	599.33	599.29	1.93	1.92	-18.68	20.29	-6.86	21.43	17.58	3.85	5.570	
700.00	700.00	698.13	697.77	2.29	2.28	-31.33	23.05	-14.03	27.08	22.52	4.55	5.947	
800.00	800.00	795.88	794.69	2.64	2.64	-43.09	27.58	-25.80	38.13	32.88	5.25	7.267	
900.00	900.00	892.08	889.34	3.00	3.03	-51.12	33.76	-41.88	54.84	48.92	5.92	9.259	
1,000.00	1,000.00	986.32	981.08	3.36	3.44	-56.18	41.48	-61.92	76.90	70.32	6.58	11.692	
1,100.00	1,099.95	1,078.85	1,070.03	3.72	3.90	-9.64	50.63	-85.69	101.46	94.26	7.20	14.093	
1,200.00	1,199.63	1,170.25	1,156.57	4.07	4.40	-12.32	61.17	-113.09	125.94	118.14	7.79	16.156	
1,300.00	1,298.77	1,260.52	1,240.58	4.44	4.96	-14.63	73.03	-143.91	150.31	141.94	8.37	17.953	
1,400.00	1,397.08	1,349.71	1,321.95	4.82	5.58	-16.72	86.13	-177.97	174.60	165.65	8.95	19.508	
1,500.00	1,494.31	1,437.83	1,400.59	5.23	6.27	-18.66	100.41	-215.06	198.80	189.28	9.52	20.874	
1,600.00	1,590.18	1,524.92	1,476.43	5.69	7.02	-20.47	115.78	-255.01	222.94	212.83	10.11	22.061	
1,700.00	1,684.43	1,611.01	1,549.40	6.19	7.84	-22.20	132.18	-297.63	247.02	236.31	10.71	23.068	
1,800.00	1,776.81	1,700.00	1,622.59	6.76	8.76	-23.93	150.36	-344.86	271.09	259.66	11.43	23.718	
1,900.00	1,867.06	1,780.32	1,686.56	7.40	9.69	-25.42	167.80	-390.19	295.05	283.01	12.04	24.499	
2,000.00	1,955.22	1,863.53	1,750.61	8.12	10.72	-27.05	186.87	-439.75	319.54	306.73	12.81	24.948	
2,100.00	2,043.04	1,945.11	1,811.11	8.89	11.81	-28.50	206.52	-490.81	347.78	334.15	13.63	25.522	
2,200.00	2,130.87	2,024.72	1,867.84	9.70	12.92	-29.60	226.58	-542.93	380.13	365.67	14.46	26.284	
2,300.00	2,218.69	2,115.61	1,930.85	10.52	14.27	-30.58	250.11	-604.06	415.08	399.47	15.62	26.580	
2,400.00	2,306.52	2,209.06	1,995.60	11.36	15.68	-31.42	274.30	-666.95	450.18	433.31	16.87	26.689	
2,500.00	2,394.34	2,302.50	2,060.35	12.22	17.10	-32.15	298.50	-729.83	485.35	467.21	18.15	26.743	
2,600.00	2,482.17	2,395.95	2,125.10	13.09	18.54	-32.77	322.70	-792.71	520.59	501.13	19.46	26.758	
2,700.00	2,570.00	2,489.40	2,189.85	13.97	19.99	-33.32	346.90	-855.59	555.87	535.08	20.78	26.746	
2,800.00	2,657.82	2,582.84	2,254.60	14.86	21.44	-33.80	371.10	-918.47	591.18	569.05	22.13	26.715	
2,900.00	2,745.65	2,676.29	2,319.35	15.75	22.90	-34.23	395.30	-981.36	626.54	603.05	23.49	26.674	
3,000.00	2,833.47	2,769.73	2,384.10	16.65	24.36	-34.62	419.49	-1,044.24	661.91	637.05	24.86	26.624	
3,100.00	2,921.30	2,863.18	2,448.85	17.56	25.83	-34.96	443.69	-1,107.12	697.32	671.07	26.25	26.568	
3,200.00	3,009.12	2,956.62	2,513.59	18.46	27.30	-35.27	467.89	-1,170.00	732.74	705.10	27.64	26.510	
3,300.00	3,096.95	3,050.07	2,578.34	19.38	28.78	-35.55	492.09	-1,232.88	768.18	739.13	29.04	26.451	
3,400.00	3,184.77	3,143.52	2,643.09	20.29	30.26	-35.81	516.29	-1,295.77	803.63	773.18	30.45	26.391	
3,500.00	3,272.60	3,236.96	2,707.84	21.21	31.74	-36.04	540.49	-1,358.65	839.10	807.23	31.87	26.333	
3,600.00	3,360.42	3,330.41	2,772.59	22.13	33.22	-36.26	564.68	-1,421.53	874.58	841.29	33.29	26.275	
3,700.00	3,448.25	3,423.85	2,837.34	23.05	34.70	-36.46	588.88	-1,484.41	910.06	875.35	34.71	26.218	
3,800.00	3,536.07	3,517.30	2,902.09	23.97	36.18	-36.64	613.08	-1,547.29	945.56	909.42	36.14	26.162	
3,900.00	3,623.90	3,610.75	2,966.84	24.90	37.67	-36.82	637.28	-1,610.17	981.07	943.49	37.58	26.109	
4,000.00	3,711.72	3,704.19	3,031.59	25.82	39.15	-36.98	661.48	-1,673.06	1,016.58	977.57	39.01	26.058	
4,100.00	3,799.55	3,797.64	3,096.34	26.75	40.64	-37.12	685.68	-1,735.94	1,052.10	1,011.65	40.45	26.009	
4,200.00	3,887.37	3,891.08	3,161.09	27.68	42.13	-37.26	709.87	-1,798.82	1,087.62	1,045.73	41.89	25.961	
4,300.00	3,975.20	3,984.53	3,225.83	28.61	43.62	-37.39	734.07	-1,861.70	1,123.15	1,079.81	43.34	25.915	
4,400.00	4,063.02	4,077.98	3,290.58	29.54	45.11	-37.51	758.27	-1,924.58	1,158.69	1,113.90	44.79	25.870	
4,500.00	4,150.85	4,171.42	3,355.33	30.47	46.60	-37.63	782.47	-1,987.47	1,194.22	1,147.99	46.24	25.827	
4,600.00	4,238.67	4,264.87	3,420.08	31.40	48.09	-37.74	806.67	-2,050.35	1,229.77	1,182.08	47.69	25.786	
4,700.00	4,326.50	4,358.31	3,484.83	32.34	49.58	-37.84	830.87	-2,113.23	1,265.31	1,216.17	49.15	25.746	
4,800.00	4,414.32	4,451.76	3,549.58	33.27	51.07	-37.94	855.06	-2,176.11	1,300.86	1,250.26	50.60	25.708	
4,900.00	4,503.52	4,544.29	3,613.70	34.15	52.55	-39.44	879.03	-2,238.38	1,338.63	1,286.66	51.97	25.759	
5,000.00	4,598.70	4,630.90	3,673.71	34.77	53.93	-42.33	901.45	-2,296.66	1,387.41	1,334.57	52.84	26.256	
5,100.00	4,697.69	7,815.02	5,315.80	35.12	79.25	-87.35	169.20	-2,066.70	1,351.01	1,252.47	98.54	13.710	

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 (102 & 106)
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+25 @ 6987.00ft
Reference Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+25 @ 6987.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	North Alamito Unit 102 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 (102 & 106) - North Alamito Unit 106 H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Offset 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	
5,200.00	4,797.47	7,818.75	5,315.79	35.25	79.28	91.76	166.78	-2,063.86	1,308.07	1,206.31	101.76	12.854	
5,300.00	4,895.03	7,839.76	5,315.71	35.25	79.48	95.44	153.12	-2,047.90	1,272.28	1,167.52	104.76	12.145	
5,400.00	4,987.39	7,877.40	5,315.56	35.17	79.82	96.89	128.66	-2,019.30	1,244.54	1,137.13	107.41	11.587	
5,500.00	5,071.75	7,930.53	5,315.35	35.06	80.33	96.88	94.12	-1,978.92	1,224.79	1,115.12	109.66	11.168	
5,600.00	5,145.55	7,997.54	5,315.09	34.98	81.00	95.87	50.56	-1,928.00	1,212.12	1,100.56	111.56	10.865	
5,700.00	5,206.53	8,076.40	5,314.79	34.97	81.81	94.33	-0.70	-1,868.08	1,205.03	1,091.80	113.23	10.642	
5,800.00	5,256.91	8,162.57	5,314.45	35.05	82.74	92.40	-56.72	-1,802.60	1,201.53	1,086.74	114.79	10.467	
5,900.00	5,296.96	8,253.91	5,314.10	35.26	83.77	90.77	-116.09	-1,733.19	1,200.27	1,083.92	116.35	10.316	
5,963.51	5,313.88	8,315.02	5,313.86	35.46	84.48	90.00	-155.81	-1,686.75	1,200.15	1,082.76	117.40	10.223	
6,000.00	5,320.50	8,350.88	5,313.72	35.58	84.91	89.68	-179.12	-1,659.50	1,200.17	1,082.17	118.00	10.171	
6,100.00	5,326.94	8,450.52	5,313.34	36.01	86.13	89.35	-243.89	-1,583.78	1,200.23	1,080.45	119.78	10.020	
6,200.00	5,326.48	8,550.52	5,312.95	36.56	87.40	89.35	-308.90	-1,507.79	1,200.23	1,078.50	121.72	9.860	
6,300.00	5,326.01	8,650.52	5,312.56	37.25	88.72	89.36	-373.90	-1,431.80	1,200.23	1,076.38	123.85	9.691	
6,400.00	5,325.55	8,750.52	5,312.17	38.08	90.08	89.36	-438.90	-1,355.81	1,200.22	1,074.08	126.15	9.514	
6,500.00	5,325.08	8,850.52	5,311.79	39.04	91.48	89.37	-503.91	-1,279.83	1,200.22	1,071.61	128.61	9.332	
6,600.00	5,324.62	8,950.52	5,311.40	40.11	92.93	89.37	-568.91	-1,203.84	1,200.22	1,068.99	131.23	9.146	
6,700.00	5,324.15	9,050.52	5,311.01	41.28	94.41	89.37	-633.92	-1,127.85	1,200.22	1,066.24	133.99	8.958	
6,800.00	5,323.69	9,150.52	5,310.62	42.56	95.94	89.38	-698.92	-1,051.86	1,200.22	1,063.35	136.87	8.769	
6,900.00	5,323.22	9,250.52	5,310.24	43.93	97.49	89.38	-763.92	-975.87	1,200.22	1,060.33	139.88	8.580	
7,000.00	5,322.76	9,350.52	5,309.85	45.38	99.08	89.38	-828.93	-899.88	1,200.22	1,057.21	143.00	8.393	
7,100.00	5,322.29	9,450.52	5,309.46	46.90	100.71	89.39	-893.93	-823.89	1,200.22	1,053.99	146.23	8.208	
7,200.00	5,321.83	9,550.52	5,309.07	48.49	102.36	89.39	-958.93	-747.90	1,200.22	1,050.67	149.54	8.026	
7,300.00	5,321.36	9,650.52	5,308.68	50.14	104.04	89.39	-1,023.94	-671.91	1,200.21	1,047.27	152.95	7.847	
7,400.00	5,320.90	9,750.52	5,308.30	51.84	105.75	89.40	-1,088.94	-595.92	1,200.21	1,043.79	156.43	7.673	
7,500.00	5,320.43	9,850.52	5,307.91	53.60	107.49	89.40	-1,153.94	-519.93	1,200.21	1,040.23	159.98	7.502	
7,600.00	5,319.97	9,950.52	5,307.52	55.40	109.25	89.41	-1,218.95	-443.94	1,200.21	1,036.61	163.60	7.336	
7,700.00	5,319.50	10,050.52	5,307.13	57.24	111.04	89.41	-1,283.95	-367.95	1,200.21	1,032.93	167.28	7.175	
7,800.00	5,319.04	10,150.52	5,306.75	59.12	112.85	89.41	-1,348.95	-291.96	1,200.21	1,029.19	171.02	7.018	
7,900.00	5,318.57	10,250.52	5,306.36	61.03	114.68	89.42	-1,413.96	-215.97	1,200.21	1,025.40	174.81	6.866	
8,000.00	5,318.10	10,350.52	5,305.97	62.97	116.53	89.42	-1,478.96	-139.98	1,200.21	1,021.56	178.65	6.718	
8,100.00	5,317.64	10,450.52	5,305.58	64.94	118.40	89.42	-1,543.96	-63.99	1,200.21	1,017.67	182.53	6.575	
8,200.00	5,317.17	10,550.52	5,305.20	66.94	120.29	89.43	-1,608.97	12.00	1,200.20	1,013.75	186.46	6.437	
8,300.00	5,316.71	10,650.52	5,304.81	68.95	122.19	89.43	-1,673.97	87.98	1,200.20	1,009.79	190.42	6.303	
8,400.00	5,316.24	10,750.52	5,304.42	70.99	124.12	89.44	-1,738.97	163.97	1,200.20	1,005.79	194.42	6.173	
8,500.00	5,315.78	10,850.52	5,304.03	73.05	126.05	89.44	-1,803.98	239.96	1,200.20	1,001.75	198.45	6.048	
8,600.00	5,315.31	10,950.52	5,303.64	75.13	128.01	89.44	-1,868.98	315.95	1,200.20	997.69	202.51	5.927	
8,700.00	5,314.85	11,050.52	5,303.26	77.22	129.98	89.45	-1,933.98	391.94	1,200.20	993.60	206.60	5.809	
8,800.00	5,314.38	11,150.52	5,302.87	79.33	131.96	89.45	-1,998.99	467.93	1,200.20	989.48	210.72	5.696	
8,900.00	5,313.92	11,250.52	5,302.48	81.45	133.95	89.45	-2,063.99	543.92	1,200.20	985.33	214.86	5.586	
9,000.00	5,313.45	11,350.52	5,302.09	83.59	135.96	89.46	-2,128.99	619.91	1,200.20	981.17	219.03	5.480	
9,100.00	5,312.99	11,450.52	5,301.71	85.73	137.98	89.46	-2,194.00	695.90	1,200.19	976.98	223.22	5.377	
9,200.00	5,312.52	11,550.52	5,301.32	87.89	140.01	89.47	-2,259.00	771.89	1,200.19	972.76	227.43	5.277	
9,300.00	5,312.06	11,650.52	5,300.93	90.06	142.05	89.47	-2,324.01	847.88	1,200.19	968.53	231.66	5.181	
9,400.00	5,311.59	11,750.52	5,300.54	92.24	144.10	89.47	-2,389.01	923.87	1,200.19	964.28	235.91	5.088	
9,500.00	5,311.13	11,850.52	5,300.15	94.42	146.17	89.48	-2,454.01	999.86	1,200.19	960.01	240.18	4.997	
9,600.00	5,310.66	11,950.52	5,299.77	96.62	148.24	89.48	-2,519.02	1,075.85	1,200.19	955.73	244.46	4.910	
9,700.00	5,310.20	12,050.52	5,299.38	98.82	150.32	89.48	-2,584.02	1,151.84	1,200.19	951.43	248.76	4.825	
9,800.00	5,309.73	12,150.52	5,298.99	101.03	152.41	89.49	-2,649.02	1,227.83	1,200.19	947.12	253.07	4.742	
9,900.00	5,309.26	12,250.52	5,298.60	103.24	154.50	89.49	-2,714.03	1,303.82	1,200.19	942.79	257.40	4.663	
10,000.00	5,308.80	12,350.52	5,298.22	105.46	156.61	89.49	-2,779.03	1,379.80	1,200.19	938.44	261.74	4.585	
10,100.00	5,308.33	12,450.52	5,297.83	107.69	158.72	89.50	-2,844.03	1,455.79	1,200.18	934.09	266.10	4.510	
10,200.00	5,307.87	12,550.52	5,297.44	109.93	160.84	89.50	-2,909.04	1,531.78	1,200.18	929.72	270.46	4.438	

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 (102 & 106)
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+25 @ 6987.00ft
Reference Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+25 @ 6987.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	North Alamito Unit 102 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 (102 & 106) - North Alamito Unit 106 H - Original Hole - rev0													Offset Site Error: 0.00 ft
Survey Program: 0-MWD													Offset Well Error: 0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,300.00	5,307.40	12,650.52	5,297.05	112.17	162.97	89.51	-2,974.04	1,607.77	1,200.18	925.34	274.84	4.367	
10,400.00	5,306.94	12,750.52	5,296.67	114.41	165.10	89.51	-3,039.04	1,683.76	1,200.18	920.95	279.23	4.298	
10,500.00	5,306.47	12,850.52	5,296.28	116.66	167.24	89.51	-3,104.05	1,759.75	1,200.18	916.55	283.63	4.232	
10,600.00	5,306.01	12,950.52	5,295.89	118.91	169.39	89.52	-3,169.05	1,835.74	1,200.18	912.14	288.04	4.167	
10,700.00	5,305.54	13,050.52	5,295.50	121.17	171.54	89.52	-3,234.05	1,911.73	1,200.18	907.72	292.46	4.104	
10,800.00	5,305.08	13,150.52	5,295.11	123.43	173.70	89.52	-3,299.06	1,987.72	1,200.18	903.29	296.88	4.043	
10,900.00	5,304.61	13,250.52	5,294.73	125.69	175.86	89.53	-3,364.06	2,063.71	1,200.18	898.86	301.32	3.983	
11,000.00	5,304.15	13,350.52	5,294.34	127.96	178.03	89.53	-3,429.06	2,139.70	1,200.18	894.41	305.76	3.925	
11,100.00	5,303.68	13,450.52	5,293.95	130.23	180.20	89.54	-3,494.07	2,215.69	1,200.18	889.96	310.22	3.869	
11,200.00	5,303.22	13,550.52	5,293.56	132.51	182.38	89.54	-3,559.07	2,291.68	1,200.17	885.50	314.68	3.814	
11,300.00	5,302.75	13,650.52	5,293.18	134.78	184.56	89.54	-3,624.07	2,367.67	1,200.17	881.03	319.14	3.761	
11,400.00	5,302.29	13,750.52	5,292.79	137.06	186.75	89.55	-3,689.08	2,443.66	1,200.17	876.55	323.62	3.709	
11,500.00	5,301.82	13,850.52	5,292.40	139.35	188.94	89.55	-3,754.08	2,519.65	1,200.17	872.07	328.10	3.658	
11,600.00	5,301.36	13,950.52	5,292.01	141.63	191.14	89.55	-3,819.08	2,595.64	1,200.17	867.58	332.59	3.609	
11,700.00	5,300.89	14,050.52	5,291.62	143.92	193.34	89.56	-3,884.09	2,671.63	1,200.17	863.09	337.08	3.560	
11,800.00	5,300.42	14,150.52	5,291.24	146.21	195.54	89.56	-3,949.09	2,747.61	1,200.17	858.59	341.58	3.514	
11,900.00	5,299.96	14,250.52	5,290.85	148.50	197.75	89.57	-4,014.10	2,823.60	1,200.17	854.08	346.09	3.468	
12,000.00	5,299.49	14,350.52	5,290.46	150.80	199.96	89.57	-4,079.10	2,899.59	1,200.17	849.57	350.60	3.423	
12,100.00	5,299.03	14,450.52	5,290.07	153.09	202.17	89.57	-4,144.10	2,975.58	1,200.17	845.05	355.11	3.380	
12,200.00	5,298.56	14,550.52	5,289.69	155.39	204.39	89.58	-4,209.11	3,051.57	1,200.17	840.53	359.63	3.337	
12,300.00	5,298.10	14,650.52	5,289.30	157.69	206.61	89.58	-4,274.11	3,127.56	1,200.16	836.00	364.16	3.296	
12,400.00	5,297.63	14,750.52	5,288.91	159.99	208.84	89.58	-4,339.11	3,203.55	1,200.16	831.47	368.69	3.255	
12,500.00	5,297.17	14,850.52	5,288.52	162.30	211.06	89.59	-4,404.12	3,279.54	1,200.16	826.94	373.23	3.216	
12,600.00	5,296.70	14,950.52	5,288.14	164.60	213.29	89.59	-4,469.12	3,355.53	1,200.16	822.40	377.77	3.177	
12,700.00	5,296.24	15,050.52	5,287.75	166.91	215.53	89.59	-4,534.12	3,431.52	1,200.16	817.85	382.31	3.139	
12,800.00	5,295.77	15,150.52	5,287.36	169.22	217.76	89.60	-4,599.13	3,507.51	1,200.16	813.30	386.86	3.102	
12,900.00	5,295.31	15,250.52	5,286.97	171.53	220.00	89.60	-4,664.13	3,583.50	1,200.16	808.75	391.41	3.066	
13,000.00	5,294.84	15,350.52	5,286.58	173.84	222.24	89.61	-4,729.13	3,659.49	1,200.16	804.19	395.97	3.031	
13,100.00	5,294.38	15,450.52	5,286.20	176.15	224.49	89.61	-4,794.14	3,735.48	1,200.16	799.63	400.53	2.996	
13,200.00	5,293.91	15,550.52	5,285.81	178.47	226.73	89.61	-4,859.14	3,811.47	1,200.16	795.07	405.09	2.963	
13,300.00	5,293.45	15,650.52	5,285.42	180.78	228.98	89.62	-4,924.14	3,887.46	1,200.16	790.50	409.66	2.930	
13,400.00	5,292.98	15,750.52	5,285.03	183.10	231.23	89.62	-4,989.15	3,963.45	1,200.15	785.93	414.23	2.897	
13,500.00	5,292.52	15,850.52	5,284.65	185.41	233.49	89.62	-5,054.15	4,039.44	1,200.15	781.35	418.80	2.864	
13,600.00	5,292.05	15,950.52	5,284.26	187.73	235.74	89.63	-5,119.15	4,115.42	1,200.15	776.78	423.38	2.835	
13,700.00	5,291.58	16,050.52	5,283.87	190.05	238.00	89.63	-5,184.16	4,191.41	1,200.15	772.20	427.96	2.804	
13,800.00	5,291.12	16,150.52	5,283.48	192.37	240.26	89.64	-5,249.16	4,267.40	1,200.15	767.61	432.54	2.775	
13,900.00	5,290.65	16,250.52	5,283.09	194.69	242.52	89.64	-5,314.16	4,343.39	1,200.15	763.03	437.12	2.746	
14,000.00	5,290.19	16,350.52	5,282.71	197.02	244.78	89.64	-5,379.17	4,419.38	1,200.15	758.44	441.71	2.717	
14,100.00	5,289.72	16,450.52	5,282.32	199.34	247.05	89.65	-5,444.17	4,495.37	1,200.15	753.85	446.30	2.689	
14,200.00	5,289.26	16,550.52	5,281.93	201.66	249.31	89.65	-5,509.17	4,571.36	1,200.15	749.25	450.90	2.662	
14,300.00	5,288.79	16,650.52	5,281.54	203.99	251.58	89.65	-5,574.18	4,647.35	1,200.15	744.66	455.49	2.635	
14,400.00	5,288.33	16,750.52	5,281.16	206.31	253.85	89.66	-5,639.18	4,723.34	1,200.15	740.06	460.09	2.609	
14,500.00	5,287.86	16,850.52	5,280.77	208.64	256.13	89.66	-5,704.19	4,799.33	1,200.15	735.46	464.69	2.583	
14,600.00	5,287.40	16,950.52	5,280.38	210.97	258.40	89.66	-5,769.19	4,875.32	1,200.15	730.85	469.29	2.557	
14,700.00	5,286.93	17,050.52	5,279.99	213.30	260.68	89.67	-5,834.19	4,951.31	1,200.14	726.25	473.90	2.532	
14,800.00	5,286.47	17,150.52	5,279.61	215.63	262.95	89.67	-5,899.20	5,027.30	1,200.14	721.64	478.51	2.508	
14,900.00	5,286.00	17,250.52	5,279.22	217.96	265.23	89.68	-5,964.20	5,103.29	1,200.14	717.03	483.12	2.484	
15,000.00	5,285.54	17,350.52	5,278.83	220.29	267.51	89.68	-6,029.20	5,179.28	1,200.14	712.41	487.73	2.461	
15,100.00	5,285.07	17,450.52	5,278.44	222.62	269.79	89.68	-6,094.21	5,255.27	1,200.14	707.80	492.34	2.438	
15,200.00	5,284.61	17,550.52	5,278.05	224.95	272.07	89.69	-6,159.21	5,331.26	1,200.14	703.18	496.96	2.415	
15,300.00	5,284.14	17,650.52	5,277.67	227.28	274.36	89.69	-6,224.21	5,407.25	1,200.14	698.56	501.58	2.393	
15,330.24	5,284.00	17,680.76	5,277.55	227.98	275.05	89.69	-6,243.87	5,430.22	1,200.14	697.17	502.97	2.386 SF	

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

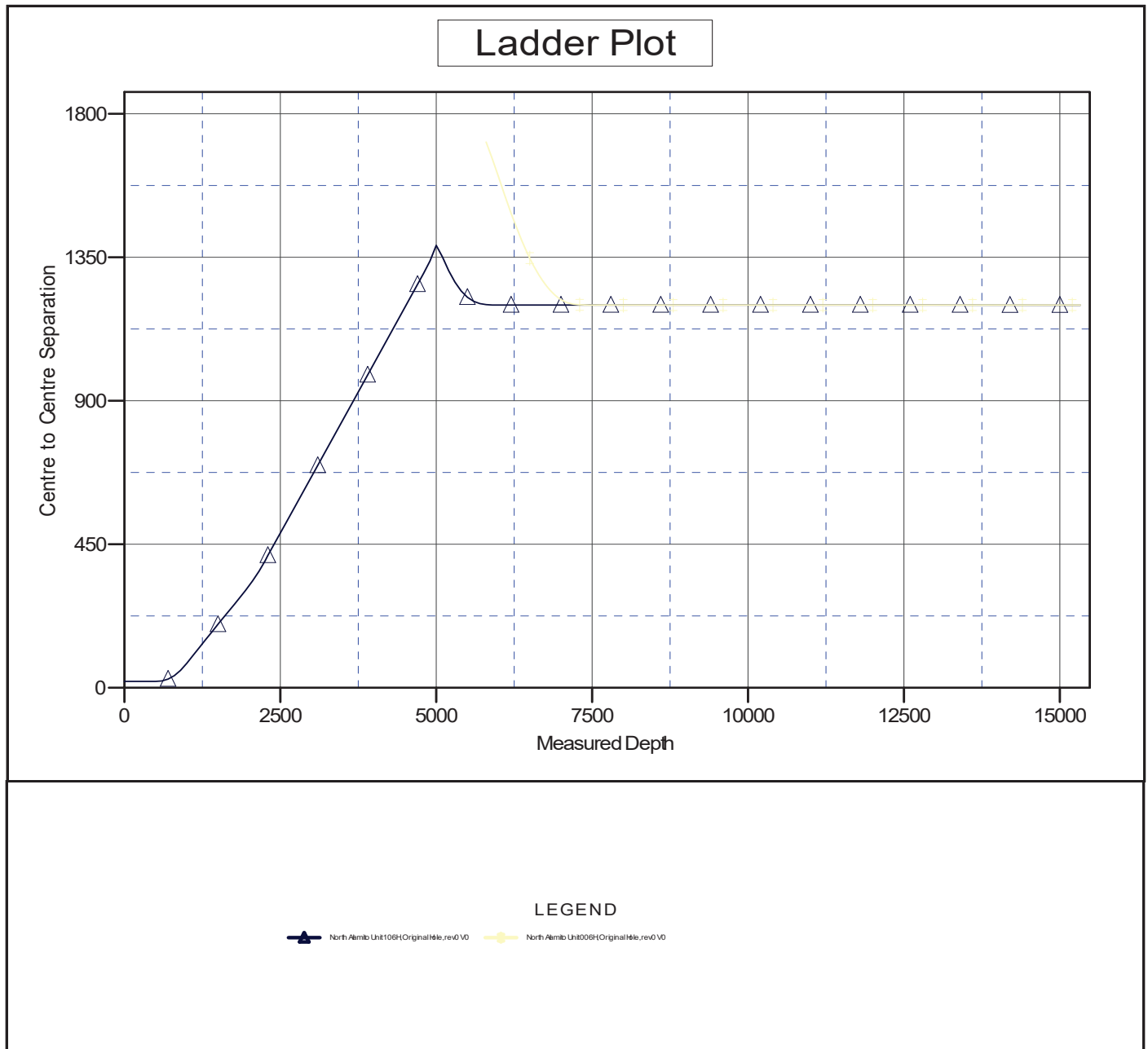


Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+25 @ 6987.00ft
Reference Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+25 @ 6987.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	North Alamito Unit 102 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=6962+25 @ 6987.00ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -106.250000000

Coordinates are relative to: North Alamito Unit (102 & 106)
 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



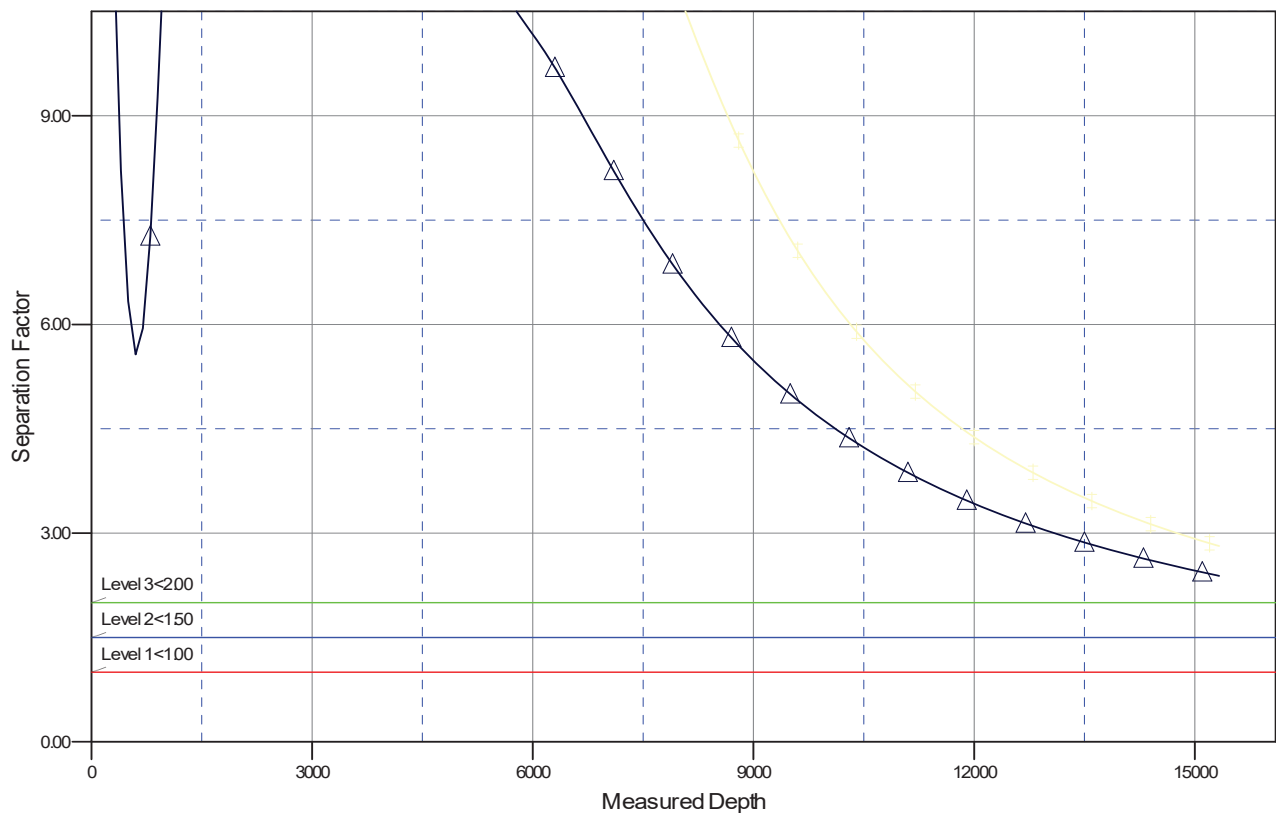
Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site North Alamito Unit (102 & 106)
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+25 @ 6987.00ft
Reference Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+25 @ 6987.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	North Alamito Unit 102 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=6962+25 @ 6987.00ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -106.250000000

Coordinates are relative to: North Alamito Unit (102 & 106)
 Coordinate System is US State Plane 1983, New Mexico Central Zone
 Grid Convergence at Surface is: -0.80°

Separation Factor Plot



LEGEND

North Alamito Unit 102H Original Hole rev0 V0
 North Alamito Unit 100H Original Hole rev0 V0



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 # 2774610 Request for Bottom Hole Location and Dedicated Acreage Changes

Operator: DJR Operating LLC
Lease: NMNM 81638
Agreement: NMNM 135229A
Well: North Alamito Unit 102H (API # 30-043-21510)
Location: NENE Sec 19 T23N R7W (Sandoval 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 313752

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 313752
	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