

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

Sundry Print Reports
02/13/2024

Well Name: NORTH ALAMITO UNIT Well Location: T23N / R7W / SEC 19 / County o

NENE / 36.217323 / -107.610489

County or Parish/State: SANDOVAL / NM

Well Number: 106H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM81638 Unit or CA Name: /1/NORTH ALAMITO Unit or CA Number:

UNIT

NMNM135229A

US Well Number: 3004321508 Well Status: Drilling Well Operator: DJR OPERATING LLC

Notice of Intent

Sundry ID: 2774620

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 02/12/2024 Time Sundry Submitted: 11:23

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 an 8800-ft lateral. DJR is seeking approval to 13870-ft, changing the proposed depth from 5285 \ 14654 to 5285 / 20659. Adjusting the BHL & increasing the dedicated acres from 560 to 840. 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

106H_NOI_Change_to_APD_Rev2_20240212112253.pdf

Page 1 of 2

eived by OCD: 2/13/2024 8:20:12 AM Well Name: NORTH ALAMITO UNIT

Well Location: T23N / R7W / SEC 19 /

NENE / 36.217323 / -107.610489

County or Parish/State: SANDOVAL / NM

Well Number: 106H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM81638

US Well Number: 3004321508

Unit or CA Name: /1/NORTH ALAMITO

UNIT

Unit or CA Number: NMNM135229A

Well Status: Drilling Well

Operator: DJR OPERATING LLC

Page 2 of

Conditions of Approval

Additional

DJR_Operating_LLC_North_Alamito_Unit_106H_BHL_Change_2774620_MHK_20240213080654.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 11:22 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:

Phone:

Email address:

BLM Point of Contact

Signature: Matthew Kade

BLM POC Name: MATTHEW H KADE BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647736 BLM POC Email Address: MKADE@BLM.GOV

Zip:

Disposition: Approved Disposition Date: 02/13/2024

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax (575) 393-0720
DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rto Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised August 1, 2011

Submit one copy to appropriate District Office

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code					
30-043-21508	3	98174	NORTH A	ALAMITO	UNIT	MANCOS	OIL POOL
⁴ Property Code ⁵ P			perty Name				• Well Number
325267		NORTH A	ALAMITO UNIT				106H
OGRID No		*Ope	erator Name				⁹ Elevation
371838		DJR OP	ERATING, LLC				6962'

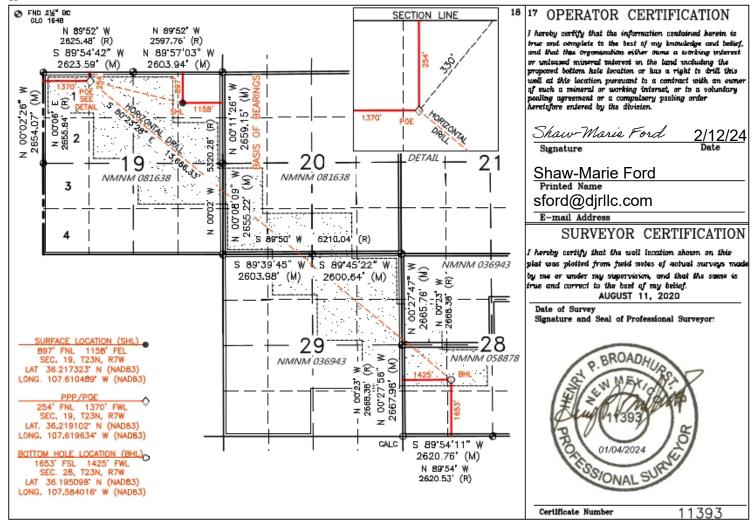
10 Surface Location

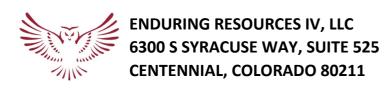
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Α	19	23N	7W		897'	NORTH	1158'	EAST	SANDOVAL

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
K	28	23N	7W		1653'	SOUTH	1425'	WEST	SANDOVAL
12 Dedicated Acres				13 Joint or I	nfill 14 Consolidati	on Code	15 Order No.		
& NE/SE (320.82 AC. SW/SE (160 AC.); SE); SEC 20; NV C 28: NE/NW,	18 Dedicated Acres PENETRATED SPACING UNIT; SEC 19: LOT 1, ME/MW, SE/NW, MW/ME, SN/NE, SE/NE, NW/SE & NE/SE (320.82 AC.); SEC 20: NW/SW, SW/SW, SE/SW & SW/SE (160 AC.); SEC 29: NE/NW, NE/A & NE/SE (240 AC.); SEC 28: SW/NW, NW/SW & ME/SW (120 AC.) = 840.82 ACRES					R-1408	31, R-14081A	

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





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

WELL INFORMATION:

Name: NORTH ALAMITO UNIT 106H

API Number: 30-043-21508 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 897 ft FNL 1,158 ft FEL

36.217323 °N latitude 107.610489 °W longitude (NAD 83) **BH Location:** 29-23N-07W Sec-Twn-Rng 1,921 ft FNL 579 ft FEL

36.199935 $^{\circ}$ N latitude 107.590841 $^{\circ}$ 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	1,081	W	normal
Kirtland	5,800	1,187	1,203	W	normal
Fruitland	5,629	1,358	1,390	G, W	sub
Pictured Cliffs	5,293	1,694	1,789	G, W	sub
Lewis	5,138	1,849	1,998	G, W	normal
Chacra	4,887	2,100	2,360	G, W	normal
Cliff House	3,798	3,189	3,931	G, W	sub
Menefee	3,758	3,229	3,989	G, W	normal
Point Lookout	2,925	4,062	5,192	G, W	normal
Mancos	2,714	4,273	5,496	O,G	sub (~0.38)
Gallup (MNCS_A)	2,375	4,612	5,913	O,G	sub (~0.38)
MNCS_B	2,275	4,712	6,016	O,G	sub (~0.38)
MNCS_C	2,188	4,799	6,106	O,G	sub (~0.38)
MNCS_Cms	2,143	4,844	6,152	O,G	sub (~0.38)
MNCS_D	2,018	4,969	6,287	O,G	sub (~0.38)
MNCS_E	1,907	5,080	6,422	O,G	sub (~0.38)
MNCS_F	1,853	5,134	6,497	O,G	sub (~0.38)
MNCS_G	1,779	5,208	6,620	O,G	sub (~0.38)
MNCS_H	1,720	5,267	6,744	O,G	sub (~0.38)
MNCS_I	1,695	5,292	6,813	O,G	sub (~0.38)
FTP TARGET	1,702	5,285	6,789	O,G	sub (~0.38)
PROJECTED TD	1,721	5,266	20,659	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 the there is no power to the accumulator.

FLUIDS AND SOLIDS CONTROL PROGRAM:

Fluid Measurement:

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

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

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

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

Fluid Program: See "Detailed Drilling Plan" section 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.

			FL		YP		
Fluid:	Type	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	рН	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

							Tens. Body	Tens. Conn
Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	9.625	36.0	K-55	STC	2,020	3,520	564,000	423,000
Loading					153	1,135	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

			Yield	Water	Hole Cap.		Planned TOC	Total Cmt	Total Cmt (cu	
Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	(cuft/ft)	% Excess	(ft MD)	(sx)	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	6,889 ft (MD)	Hole Section Length:	6,539 ft
350 ft (TVD)	to	5,310 ft (TVD)	Casing Required:	6,889 ft

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

							Tens. Body	Tens. Conn	
Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)	l
Specs	7	26.0	K-55	LTC	4,320	4,980	415,000	367,000	l
Loading					2,319	1,424	256,196	256,196	l
Min. S.F.					1.86	3.50	1.62	1.43	

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

			Yield	Water		Planned TOC	Total Cmt	Total Cmt (cu
Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	% Excess	(ft MD)	(sx)	ft)
Lead	III:POZ Blend	12.5	2.140	12.05	70%	0	630	1,348
Tail	Type III	14.6	1.380	6.64	20%	5,396	202	279

Annular Capacity

0.16681 cuft/ft 0.1503 cuft/ft 7" casing x 9-5/8" casing annulus 9-5/8" casing x 12-1/4" hole annulus Shoe Track L 44 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.

6,889	ft (MD)	to	20,659	ft (MD)	Hole S	ection Length:	13,770 ft
5,310	ft (TVD)	to	5,266	ft (TVD)	Ca	sing Required:	13,920 ft
		Estimated KOP:	5,588	ft (MD)	4,337	ft (TVD)	
	Est	imated Liner Top:	6,739	ft (MD)	5,266	ft (TVD)	
E	stimated La	nding Point (FTP):	6,789	ft (MD)	5,285	ft (TVD)	
	Estimate	ed Lateral Length:	13,870	ft (MD)			

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

Hole Size:

6.125

Bit / Motor: 6-1/8" PDC bit w/mud motor

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

minimum before KOP and after Landing Point)

 ${\color{red}\textbf{Logging:}} \ \, \textbf{GR MWD for entire section, no mud-log or cuttings sampling, no OH WL logs}$

							Tens. Body	Tens. Conn
Liner/Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	4.500	11.6	P-110	BTC	7,560	10,690	367,000	385,000
Loading					2,601	8,801	306,791	306,791
Min. S.F.					2.91	1.21	1.20	1.25
			Yield	Water		Planned TOC	Total Cmt	Total Cmt (cu
Cement:	Туре	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Cement: Spacer	Type IntegraGuard Star	Weight (ppg)			% Excess			
	71			(gal/sk)	% Excess	(ft MD)	(sx)	

Displacement

284 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

	Avis 616 viscosifier 11.6 lb/bbl	FP24 Defoamer .5 lb/bbl		SS201 Surfactant 1 gal/bbl			
Lead	BA90 Bonding		FL24 Fluid Loss .5% BWOB		R7C Retarder .2%	FP24 Defoamer 0.3% BWOB, Anti- Static .01 lb/sx	
	December 5h Ash	DAGO Dagadina	Bentonite		IntegraGuard	D2 Detection 50/	FP24 Defoamer .3% BWOB,
Tail	, .	BA90 Bonding Agent 3.0 lb/sx		FL24 Fluid Loss .4% BWOB		R3 Retarder .5% BWOB	IntegraSeal 0.25 Ib/sx

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 13,770

Est Frac Inform: 57 Frac Stages 221,000 bbls slick water 17,910,000 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 106H**

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

API Number: 30-043-21508 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 897 ft FNL 1.158 ft FEL BH Location: 29-23N-07W Sec-Twn- Rng 1921 ft FNL 579 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).

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	6,889	7	26.0	K-55	LTC	0	6,889
Production	8.500	20,659	4.500	11.6	P-110	BTC	0	20,659

CEMENT PROPERTIES SUMMARY:

					Hole Cap.		тос	
	Туре	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	(cuft/ft)	% Excess	(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	630
Inter. (Tail)	Type III	14.6	1.38	6.64	0.1503	20%	5,396	202
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%	6,739	1,124

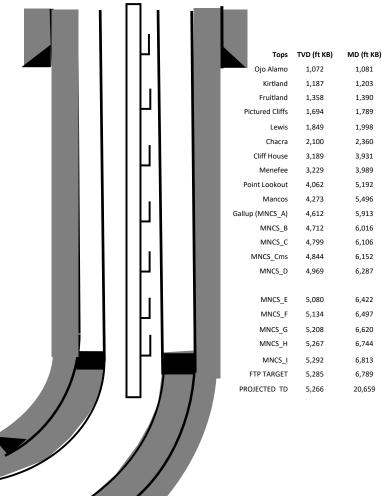
COMPLETION / PRODUCTION SUMMARY:

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

QUIC	CK REFERENCE
Sur TD (MD)	350 ft
Int TD (MD)	6,889 ft
KOP (MD)	5,588 ft
KOP (TVD)	4,337 ft
Target (TVD)	5,285 ft
Curve BUR	10 °/100 ft
POE (MD)	6,789 ft
TD (MD)	20,659 ft
Lat Len (ft)	13,870 ft





Well: North Alamito Unit 106 H

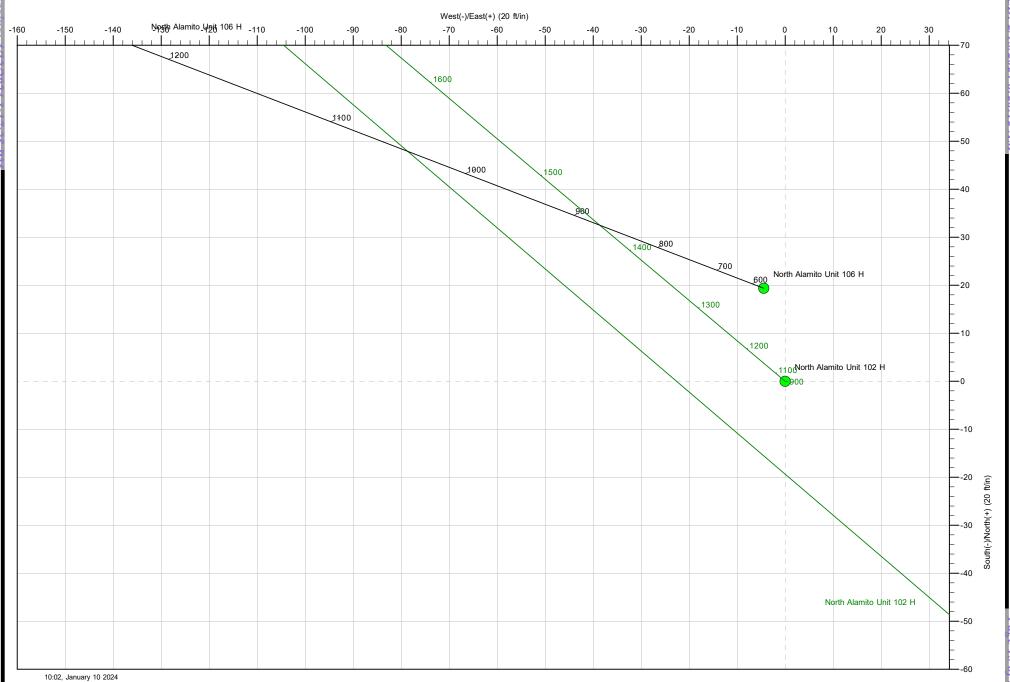
Site: North Alamito Unit (102 & 106)

Project: Sandoval County, New Mexico NAD83 NM C

Design: rev0

Rig:







DT_Aug2923v16 Database:

Company: **Enduring Resources LLC**

Project: Sandoval County, New Mexico NAD83 NM C Site: North Alamito Unit (102 & 106)

Well: North Alamito Unit 106 H Wellbore: Original Hole

Design: rev0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site North Alamito Unit (102 & 106)

136.806

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Grid

Minimum Curvature

Project Sandoval County, New Mexico NAD83 NM C

Map System: US State Plane 1983 North American Datum 1983 Geo Datum: New Mexico Central Zone Map Zone:

System Datum:

Mean Sea Level

North Alamito Unit (102 & 106) Site

Northing: 1,901,167.832 usft Site Position: 36.217270000 Latitude: From: Lat/Long Easting: 1,239,107.836 usft Longitude: -107.610473000

0.00 ft Slot Radius: 13-3/16 " **Position Uncertainty:**

Well North Alamito Unit 106 H, Surf loc: 897 FNL 1158 FEL Section 19-T23N-R07W

0.00

rev0 (Original Hole)

36.217323000 **Well Position** +N/-S 19 36 ft 1,901,187.193 usft Latitude: Northing: +E/-W -4.45 ft Easting: 1,239,103.387 usft Longitude: -107.610489000

Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 6,962.00 ft

-0.80° **Grid Convergence:**

0.00

20,659.35

Wellbore Original Hole Dip Angle Magnetics **Model Name** Sample Date Declination Field Strength (°) (°) (nT) IGRF2020 1/9/2024 8.47 62.70 49,055.23906377

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

Plan Survey Tool Program 1/9/2024 Date Depth From Depth To (ft) (ft) Survey (Wellbore) **Tool Name** Remarks

19.36

-4.45

OWSG MWD - Standard

MWD

Plan Sections Vertical Measured Dogleg Build Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate TFO (°/100ft) (°/100ft) (°/100ft) (ft) (°) (°) (ft) (ft) (ft) (°) **Target** 0.00 0.000 0.00 19.36 0.00 0.00 0.00 -4.450.00 0.00 500.00 0.00 0.000 500.00 19.36 -4.45 0.00 0.00 0.00 0.00 2,037.98 46.14 291.048 1,877.06 230.00 -551.83 3.00 0.00 291.05 3.00 5,588.43 46.14 291.048 4,337.19 1,149.41 -2,941.01 0.00 0.00 0.00 0.00 6,628.58 60.00 926.42 10.00 130 545 5,212.24 -2,951.88 1 33 -15 43 -162 67 6,688.58 60.00 5,242.24 892.64 -2,912.40 0.00 0.00 130.545 0.00 0.00 6,990.80 90.22 130.545 5,319.00 704.97 -2,693.02 10.00 10.00 0.00 0.00 -8,180.06 7,693.64 20,659.35 90.22 130.545 5,266.00 0.00 0.00 0.00 0.00 North Alamito 106 BH



Database: DT_Aug2923v16

Company: Enduring Resources LLC

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

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site North Alamito Unit (102 & 106)

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Grid

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	19.36	-4.45	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	19.36	-4.45	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	19.36	-4.45	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	19.36	-4.45	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	19.36	-4.45	0.00	0.00	0.00	0.00
	0.00		400.00	19.50	-4.43	0.00		0.00	0.00
500.00	0.00	0.000	500.00	19.36	-4.45	0.00	0.00	0.00	0.00
600.00	3.00	291.048	599.95	20.30	-6.89	-2.36	3.00	3.00	0.00
700.00	6.00	291.048	699.63	23.12	-14.21	-9.42	3.00	3.00	0.00
800.00	9.00	291.048	798.77	27.81	-26.39	-21.18	3.00	3.00	0.00
900.00	12.00	291.048	897.08	34.35	-43.40	-37.59	3.00	3.00	0.00
1,000.00	15.00	291.048	994.31	42.73	-65.18	-58.61	3.00	3.00	0.00
1,100.00	18.00	291.048	1,090.18	52.93	-91.69	-84.19	3.00	3.00	0.00
1,200.00	21.00	291.048	1,184.43	64.92	-122.84	-114.25	3.00	3.00	0.00
1,300.00	24.00	291.048	1,276.81	78.66	-158.55	-148.71	3.00	3.00	0.00
1,400.00	27.00	291.048	1,367.06	94.12	-198.72	-187.48	3.00	3.00	0.00
1,500.00	30.00	291.048	1,454.93	111.26	-243.25	-230.45	3.00	3.00	0.00
1,600.00	33.00	291.048	1,540.18	130.02	-292.01	-277.50	3.00	3.00	0.00
1,700.00	36.00	291.048	1,622.59	150.36	-344.86	-328.51	3.00	3.00	0.00
1,800.00	39.00	291.048	1,701.91	172.22	-401.67	-383.33	3.00	3.00	0.00
1,900.00	42.00	291.048	1,777.95	195.54	-462.28	-441.81	3.00	3.00	0.00
0.000.00	45.00	004.040	4 050 47	200.00	F00 F4	500.00	2.00	2.00	0.00
2,000.00	45.00	291.048	1,850.47	220.26	-526.51	-503.80	3.00	3.00	0.00
2,037.98	46.14	291.048	1,877.06	230.00	-551.83	-528.23	3.00	3.00	0.00
2,100.00	46.14	291.048	1,920.04	246.06	-593.56	-568.50	0.00	0.00	0.00
2,200.00	46.14	291.048	1,989.33	271.96	-660.85	-633.44	0.00	0.00	0.00
2,300.00	46.14	291.048	2,058.62	297.85	-728.14	-698.38	0.00	0.00	0.00
2,400.00	46.14	291.048	2,127.91	323.75	-795.44	-763.32	0.00	0.00	0.00
2,500.00	46.14	291.048	2,197.20	349.65	-862.73	-828.26	0.00	0.00	0.00
2,600.00	46.14	291.048	2,266.49	375.54	-930.02	-893.19	0.00	0.00	0.00
2,700.00	46.14	291.048	2,335.78	401.44	-997.31	-958.13	0.00	0.00	0.00
2,800.00	46.14	291.048	2,405.07	427.33	-1,064.60	-1,023.07	0.00	0.00	0.00
2,900.00	46.14	291.048	2,474.36	453.23	-1,131.90	-1,088.01	0.00	0.00	0.00
3,000.00	46.14	291.048	2,543.65	479.12	-1,199.19	-1,152.95	0.00	0.00	0.00
3,100.00	46.14	291.048	2,612.94	505.02	-1,266.48	-1,217.89	0.00	0.00	0.00
3,200.00	46.14	291.048	2,682.23	530.91	-1,333.77	-1,282.82	0.00	0.00	0.00
3,300.00			2,751.52						
3,300.00	46.14	291.048	2,731.32	556.81	-1,401.07	-1,347.76	0.00	0.00	0.00
3,400.00	46.14	291.048	2,820.81	582.71	-1,468.36	-1,412.70	0.00	0.00	0.00
3,500.00	46.14	291.048	2,890.10	608.60	-1,535.65	-1,477.64	0.00	0.00	0.00
3,600.00	46.14	291.048	2,959.39	634.50	-1,602.94	-1,542.58	0.00	0.00	0.00
3,700.00	46.14	291.048	3,028.68	660.39	-1,670.24	-1,607.52	0.00	0.00	0.00
3,800.00	46.14	291.048	3,097.97	686.29	-1,737.53	-1,672.46	0.00	0.00	0.00
3,900.00	46.14	291.048	3,167.26	712.18	-1,804.82	-1,737.39	0.00	0.00	0.00
4,000.00	46.14	291.048	3,236.55	738.08	-1,872.11	-1,802.33	0.00	0.00	0.00
4,100.00	46.14	291.048	3,305.84	763.97	-1,939.40	-1,867.27	0.00	0.00	0.00
4,200.00	46.14	291.048	3,375.14	789.87	-2,006.70	-1,932.21	0.00	0.00	0.00
4,300.00	46.14	291.048	3,444.43	815.77	-2,073.99	-1,997.15	0.00	0.00	0.00
4,400.00	46.14	291.048	3,513.72	841.66	-2,141.28	-2,062.09	0.00	0.00	0.00
4,500.00	46.14	291.048	3,583.01	867.56	-2,208.57	-2,127.02	0.00	0.00	0.00
4,600.00	46.14	291.048	3,652.30	893.45	-2,275.87	-2,191.96	0.00	0.00	0.00
4,700.00	46.14	291.048	3,721.59	919.35	-2,343.16	-2,256.90	0.00	0.00	0.00
4,800.00	46.14	291.048	3,790.88	945.24	-2,410.45	-2,321.84	0.00	0.00	0.00
	40.44							0.00	0.00
4,900.00	46.14	291.048	3,860.17	971.14	-2,477.74	-2,386.78	0.00	0.00	0.00
5,000.00	46.14	291.048	3,929.46	997.03	-2,545.04	-2,451.72	0.00	0.00	0.00
5,100.00	46.14	291.048	3,998.75	1,022.93	-2,612.33	-2,516.65	0.00	0.00	0.00
5,200.00	46.14	291.048	4,068.04	1,048.83	-2,679.62	-2,581.59	0.00	0.00	0.00



Database: DT_Aug2923v16
Company: Enduring Resources LLC

Project: Sandoval County, New Mexico NAD83 NM C

Site: North Alamito Unit (102 & 106)
Well: North Alamito Unit 106 H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site North Alamito Unit (102 & 106)

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Grid

anned 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)
5,300.00	46.14	291.048	4,137.33	1,074.72	-2,746.91	-2,646.53	0.00	0.00	0.00
5,400.00	46.14	291.048	4,206.62	1,100.62	-2,814.20	-2,711.47	0.00	0.00	0.00
5,500.00	46.14	291.048	4,275.91	1,126.51	-2,881.50	-2,776.41	0.00	0.00	0.00
5,588.43	46.14	291.048	4,337.19	1,149.41	-2,941.01	-2,833.84	0.00	0.00	0.00
5,600.00	45.04	290.561	4,345.28	1,152.35	-2,948.73	-2,841.26	10.00	-9.54	-4.21
5,650.00	40.30	288.216	4,382.04	1,163.62	-2,980.67	-2,871.34	10.00	-9.48	-4.69
5,700.00	35.61	285.367	4,421.46	1,172.54	-3,010.08	-2,897.98	10.00	-9.37	-5.70
5,750.00	31.01	281.789	4,463.23	1,179.03	-3,036.74	-2,920.96	10.00	-9.20	-7.16
5,800.00	26.54	277.124	4,507.05	1,183.05	-3,060.45	-2,940.12	10.00	-8.94	-9.33
5,850.00	22.28	270.779	4,552.58	1,184.57	-3,081.03	-2,955.30	10.00	-8.53	-12.69
5,900.00	18.37	261.761	4,599.47	1,183.57	-3,098.31	-2,966.40	10.00	-7.82	-18.04
5,950.00	15.08	248.563	4,647.37	1,180.06	-3,112.17	-2,973.33	10.00	-6.56	-26.40
6,000.00	12.92	229.799	4,695.91	1,174.07	-3,122.50	-2,976.04	10.00	-4.32	-37.53
6,050.00	12.48	206.998	4,744.71	1,165.64	-3,129.23	-2,974.50	10.00	-0.89	-45.60
6,100.00	13.91	185.869	4,793.42	1,154.84	-3,132.30	-2,968.73	10.00	2.87	-42.26
6,150.00	16.75	170.194	4,841.66	1,141.76	-3,131.68	-2,958.77	10.00	5.68	-31.35
6,200.00	20.42	159.464	4,889.06	1,126.48	-3,127.39	-2,944.69	10.00	7.33	-21.46
6,250.00	24.54	152.042	4,935.25	1,109.13	-3,119.46	-2,926.61	10.00	8.25	-14.85
6,300.00	28.93	146.696	4,979.90	1,089.83	-3,107.94	-2,904.66	10.00	8.78	-10.69
6,350.00	33.48	142.673	5,022.66	1,068.75	-3,092.93	-2,879.02	10.00	9.09	-8.05
6,400.00	38.13	139.522	5,063.21	1,046.03	-3,074.54	-2,849.86	10.00	9.30	-6.30
6,450.00	42.85	136.967	5,101.23	1,021.84	-3,052.90	-2,817.42	10.00	9.44	-5.11
6,500.00	47.61	134.830	5,136.43	996.38	-3,028.19	-2,781.94	10.00	9.53	-4.27
6,550.00	52.41	132.997	5,168.56	969.84	-3,000.59	-2,743.70	10.00	9.60	-3.67
6,600.00	57.23	131.387	5,197.36	942.41	-2,970.31	-2,702.98	10.00	9.65	-3.22
6,628.58	60.00	130.545	5,212.24	926.42	-2,951.88	-2,678.71	10.00	9.68	-2.95
6,688.58	60.00	130.545	5,242.24	892.64	-2,912.40	-2,627.06	0.00	0.00	0.00
6,700.00	61.14	130.545	5,247.85	886.18	-2,904.84	-2,617.17	10.00	10.00	0.00
6,750.00	66.14	130.545	5,270.04	857.06	-2,870.81	-2,572.65	10.00	10.00	0.00
6,800.00	71.14	130.545	5,288.25	826.80	-2,835.43	-2,526.38	10.00	10.00	0.00
6,850.00	76.14	130.545	5,302.32	795.63	-2,798.99	-2,478.70	10.00	10.00	0.00
6,900.00	81.14	130.545	5,312.17	763.77	-2,761.75	-2,429.99	10.00	10.00	0.00
6,950.00	86.14	130.545	5,317.70	731.48	-2,724.00	-2,380.61	10.00	10.00	0.00
6,990.80	90.22	130.545	5,319.00	704.97	-2,693.02	-2,340.08	10.00	10.00	0.00
7,000.00	90.22	130.545	5,318.96	699.00	-2,686.03	-2,330.94	0.00	0.00	0.00
7,100.00	90.22	130.545	5,318.57	633.99	-2,610.04	-2,231.54	0.00	0.00	0.00
7,200.00	90.22	130.545	5,318.19	568.99	-2,534.05	-2,132.13	0.00	0.00	0.00
7,300.00	90.22	130.545	5,317.80	503.99	-2,458.06	-2,032.73	0.00	0.00	0.00
7,400.00	90.22	130.545	5,317.41	438.98	-2,382.07	-1,933.33	0.00	0.00	0.00
7,500.00 7,600.00	90.22 90.22	130.545 130.545	5,317.02 5,316.64	373.98 308.98	-2,306.08 -2,230.09	-1,833.92 -1,734.52	0.00 0.00	0.00 0.00	0.00 0.00
					*				
7,700.00	90.22	130.545	5,316.25	243.97	-2,154.10	-1,635.12	0.00	0.00	0.00
7,800.00	90.22	130.545	5,315.86	178.97	-2,078.11	-1,535.72	0.00	0.00	0.00
7,900.00	90.22	130.545	5,315.47	113.96	-2,002.12	-1,436.31	0.00	0.00	0.00
8,000.00	90.22	130.545	5,315.08	48.96	-1,926.13	-1,336.91	0.00	0.00	0.00
8,100.00	90.22	130.545	5,314.70	-16.04	-1,850.14	-1,237.51	0.00	0.00	0.00
8,200.00	90.22	130.545	5,314.31	-81.05	-1,774.15	-1,138.11	0.00	0.00	0.00
8,300.00	90.22	130.545	5,313.92	-146.05	-1,698.16	-1,038.70	0.00	0.00	0.00
8,400.00	90.22	130.545	5,313.53	-211.05	-1,622.18	-939.30	0.00	0.00	0.00
8,500.00	90.22	130.545	5,313.15	-276.06	-1,546.19	-839.90	0.00	0.00	0.00
8,600.00	90.22	130.545	5,312.76	-341.06	-1,470.20	-740.49	0.00	0.00	0.00
8,700.00	90.22	130.545	5,312.37	-406.06	-1,394.21	-641.09	0.00	0.00	0.00
8,800.00	90.22	130.545	5,311.98	-471.07	-1,318.22	-541.69	0.00	0.00	0.00
8,900.00	90.22	130.545	5,311.60	-536.07	-1,242.23	-442.29	0.00	0.00	0.00



Database: DT_Aug2923v16

Company: Enduring Resources LLC

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

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site North Alamito Unit (102 & 106)

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Grid

sign:									
anned 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)
9,000.00	90.22	130.545	5,311.21	-601.07	-1,166.24	-342.88	0.00	0.00	0.00
9,100.00	90.22	130.545	5,310.82	-666.08	-1,090.25	-243.48	0.00	0.00	0.00
9,200.00	90.22	130.545	5,310.43	-731.08	-1,014.26	-144.08	0.00	0.00	0.00
9,300.00 9,400.00	90.22 90.22	130.545 130.545	5,310.04 5,309.66	-796.08 -861.09	-938.27 -862.28	-44.68 54.73	0.00 0.00	0.00 0.00	0.00 0.00
9,500.00	90.22	130.545	5,309.66	-926.09	-002.20 -786.29	154.73	0.00	0.00	0.00
9,600.00	90.22	130.545	5,308.88	-991.09	-710.30	253.53	0.00	0.00	0.00
9,700.00	90.22	130.545	5,308.49	-1,056.10	-634.31	352.93	0.00	0.00	0.00
9,800.00	90.22	130.545	5,308.11	-1,121.10	-558.32	452.34	0.00	0.00	0.00
9,900.00	90.22	130.545	5,307.72	-1,186.10	-482.33	551.74	0.00	0.00	0.00
10,000.00	90.22	130.545	5,307.33	-1,251.11	-406.34	651.14	0.00	0.00	0.00
10,100.00	90.22	130.545	5,306.94	-1,316.11	-330.35	750.55	0.00	0.00	0.00
10,200.00	90.22	130.545	5,306.55	-1,381.12	-254.37	849.95	0.00	0.00	0.00
10,300.00	90.22	130.545	5,306.17	-1,446.12	-178.38	949.35	0.00	0.00	0.00
10,400.00	90.22	130.545	5,305.78	-1,511.12	-102.39	1,048.75	0.00	0.00	0.00
10,500.00	90.22	130.545	5,305.39	-1,576.13	-26.40	1,148.16	0.00	0.00	0.00
10,600.00	90.22	130.545	5,305.00	-1,641.13	49.59	1,247.56	0.00	0.00	0.00
10,700.00	90.22	130.545	5,304.62	-1,706.13	125.58	1,346.96	0.00	0.00	0.00
10,800.00	90.22	130.545	5,304.23	-1,771.14	201.57	1,446.36	0.00	0.00	0.00
10,900.00	90.22	130.545	5,303.84	-1,836.14	277.56	1,545.77	0.00	0.00	0.00
11,000.00 11,100.00	90.22 90.22	130.545 130.545	5,303.45 5,303.06	-1,901.14 -1,966.15	353.55 429.54	1,645.17 1,744.57	0.00 0.00	0.00 0.00	0.00 0.00
11,200.00	90.22	130.545	5,302.68	-2,031.15	505.53	1,843.97	0.00	0.00	0.00
11,300.00	90.22	130.545	5,302.29	-2,096.15	581.52	1,943.38	0.00	0.00	0.00
11,400.00	90.22	130.545	5,301.90	-2,161.16	657.51	2,042.78	0.00	0.00	0.00
11,500.00	90.22	130.545	5,301.51	-2,226.16	733.50	2,142.18	0.00	0.00	0.00
11,600.00	90.22	130.545	5,301.13	-2,291.16	809.49	2,241.59	0.00	0.00	0.00
11,700.00	90.22	130.545	5,300.74	-2,356.17	885.48	2,340.99	0.00	0.00	0.00
11,800.00	90.22	130.545	5,300.35	-2,421.17	961.47	2,440.39	0.00	0.00	0.00
11,900.00	90.22	130.545	5,299.96	-2,486.17	1,037.46	2,539.79	0.00	0.00	0.00
12,000.00	90.22	130.545	5,299.58	-2,551.18	1,113.45	2,639.20	0.00	0.00	0.00
12,100.00	90.22	130.545	5,299.19	-2,616.18	1,189.43	2,738.60	0.00	0.00	0.00
12,200.00	90.22	130.545	5,298.80	-2,681.18	1,265.42	2,838.00	0.00	0.00	0.00
12,300.00	90.22	130.545	5,298.41	-2,746.19	1,341.41	2,937.40	0.00	0.00	0.00
12,400.00	90.22	130.545	5,298.02	-2,811.19	1,417.40	3,036.81	0.00	0.00	0.00
12,500.00 12,600.00	90.22 90.22	130.545 130.545	5,297.64 5,297.25	-2,876.20 -2,941.20	1,493.39 1,569.38	3,136.21 3,235.61	0.00 0.00	0.00 0.00	0.00 0.00
12,700.00	90.22	130.545	5,296.86	-3,006.20	1,645.37	3,335.01	0.00	0.00	0.00
12,800.00	90.22	130.545	5,296.47	-3,071.21	1,721.36	3,434.42	0.00	0.00	0.00
12,900.00	90.22	130.545	5,296.09	-3,136.21	1,797.35	3,533.82	0.00	0.00	0.00
13,000.00	90.22	130.545	5,295.70	-3,201.21	1,873.34	3,633.22	0.00	0.00	0.00
13,100.00	90.22	130.545	5,295.31	-3,266.22	1,949.33	3,732.63	0.00	0.00	0.00
13,200.00	90.22	130.545	5,294.92	-3,331.22	2,025.32	3,832.03	0.00	0.00	0.00
13,300.00	90.22	130.545	5,294.53	-3,396.22	2,101.31	3,931.43	0.00	0.00	0.00
13,400.00	90.22	130.545	5,294.15	-3,461.23	2,177.30	4,030.83	0.00	0.00	0.00
13,500.00	90.22	130.545	5,293.76	-3,526.23	2,253.29	4,130.24	0.00	0.00	0.00
13,600.00	90.22	130.545	5,293.37	-3,591.23	2,329.28	4,229.64	0.00	0.00	0.00
13,700.00	90.22	130.545	5,292.98	-3,656.24	2,405.27	4,329.04	0.00	0.00	0.00
13,800.00	90.22	130.545	5,292.60	-3,721.24	2,481.26	4,428.44	0.00	0.00	0.00
13,900.00	90.22	130.545	5,292.21	-3,786.24	2,557.24	4,527.85	0.00	0.00	0.00
14,000.00 14,100.00	90.22 90.22	130.545 130.545	5,291.82 5,291.43	-3,851.25 -3,916.25	2,633.23 2,709.22	4,627.25 4,726.65	0.00 0.00	0.00 0.00	0.00 0.00
14,200.00	90.22	130.545	5,291.05	-3,981.25	2,785.21	4,826.05	0.00	0.00	0.00



Database: DT_Aug2923v16
Company: Enduring Resource

Company: Enduring Resources LLC
Project: Sandoval County, New Mexico NAD83 NM C

Site: North Alamito Unit (102 & 106)
Well: North Alamito Unit 106 H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site North Alamito Unit (102 & 106)

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Grid

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)
14,400.00	90.22	130.545	5,290.27	-4,111.26	2,937.19	5,024.86	0.00	0.00	0.00
14,500.00	90.22	130.545	5,289.88	-4,176.26	3,013.18	5,124.26	0.00	0.00	0.00
14,600.00	90.22	130.545	5,289.49	-4,241.27	3,089.17	5,223.67	0.00	0.00	0.00
14,700.00	90.22	130.545	5,289.11	-4,306.27	3,165.16	5,323.07	0.00	0.00	0.00
14,800.00	90.22	130.545	5,288.72	-4,371.28	3,241.15	5,422.47	0.00	0.00	0.00
14,900.00	90.22	130.545	5,288.33	-4,436.28	3,317.14	5,521.87	0.00	0.00	0.00
15,000.00	90.22 90.22	130.545	5,287.94	-4,501.28	3,393.13	5,621.28	0.00	0.00	0.00
15,100.00		130.545	5,287.56	-4,566.29	3,469.12	5,720.68	0.00	0.00	0.00
15,200.00	90.22	130.545	5,287.17	-4,631.29	3,545.11	5,820.08	0.00	0.00	0.00
15,300.00	90.22	130.545	5,286.78	-4,696.29	3,621.10	5,919.48	0.00	0.00	0.00
15,400.00	90.22	130.545	5,286.39	-4,761.30	3,697.09	6,018.89	0.00	0.00	0.00
15,500.00 15,600.00	90.22 90.22	130.545 130.545	5,286.00 5,285.62	-4,826.30 -4,891.30	3,773.08 3,849.07	6,118.29 6,217.69	0.00 0.00	0.00 0.00	0.00 0.00
15,700.00	90.22	130.545	5,285.23	-4,956.31	3,925.06	6,317.10	0.00	0.00	0.00
15,800.00	90.22	130.545	5,284.84	-5,021.31	4,001.04	6,416.50	0.00	0.00	0.00
15,900.00	90.22	130.545	5,284.45	-5,086.31	4,077.03	6,515.90	0.00	0.00	0.00
16,000.00	90.22	130.545	5,284.07	-5,151.32	4,153.02	6,615.30	0.00	0.00	0.00
16,100.00	90.22	130.545	5,283.68	-5,216.32	4,229.01	6,714.71	0.00	0.00	0.00
16,200.00	90.22	130.545	5,283.29	-5,281.32	4,305.00	6,814.11	0.00	0.00	0.00
16,300.00	90.22	130.545	5,282.90	-5,346.33	4,380.99	6,913.51	0.00	0.00	0.00
16,400.00	90.22	130.545	5,282.52	-5,411.33	4,456.98	7,012.91	0.00	0.00	0.00
16,500.00	90.22	130.545	5,282.13	-5,476.33	4,532.97	7,112.32	0.00	0.00	0.00
16,600.00	90.22	130.545	5,281.74	-5,541.34	4,608.96	7,211.72	0.00	0.00	0.00
16,700.00	90.22	130.545	5,281.35	-5,606.34	4,684.95	7,311.12	0.00	0.00	0.00
16,800.00	90.22	130.545	5,280.96	-5,671.34	4,760.94	7,410.52	0.00	0.00	0.00
16,900.00	90.22	130.545	5,280.58	-5,736.35	4,836.93	7,509.93	0.00	0.00	0.00
17,000.00	90.22	130.545	5,280.19	-5,801.35	4,912.92	7,609.33	0.00	0.00	0.00
17,100.00	90.22	130.545	5,279.80	-5,866.36	4,988.91	7,708.73	0.00	0.00	0.00
17,200.00	90.22	130.545	5,279.41	-5,931.36	5,064.90	7,808.14	0.00	0.00	0.00
17,300.00	90.22	130.545	5,279.03	-5,996.36	5,140.89	7,907.54	0.00	0.00	0.00
17,400.00	90.22	130.545	5,278.64	-6,061.37	5,216.88	8,006.94	0.00	0.00	0.00
17,500.00	90.22	130.545	5,278.25	-6,126.37	5,292.87	8,106.34	0.00	0.00	0.00
17,600.00	90.22	130.545	5,277.86	-6,191.37	5,368.85	8,205.75	0.00	0.00	0.00
17,700.00	90.22	130.545	5,277.47	-6,256.38	5,444.84	8,305.15	0.00	0.00	0.00
17,800.00	90.22	130.545	5,277.09	-6,321.38	5,520.83	8,404.55	0.00	0.00	0.00
17,900.00	90.22	130.545	5,276.70	-6,386.38	5,596.82	8,503.95	0.00	0.00	0.00
18,000.00	90.22	130.545	5,276.31	-6,451.39	5,672.81	8,603.36	0.00	0.00	0.00
18,100.00	90.22	130.545	5,275.92	-6,516.39	5,748.80	8,702.76	0.00	0.00	0.00
18,200.00	90.22	130.545	5,275.54	-6,581.39	5,824.79	8,802.16	0.00	0.00	0.00
18,300.00	90.22	130.545	5,275.15	-6,646.40	5,900.78	8,901.56	0.00	0.00	0.00
18,400.00	90.22	130.545	5,274.76	-6,711.40	5,976.77	9,000.97	0.00	0.00	0.00
18,500.00	90.22	130.545	5,274.37	-6,776.40	6,052.76	9,100.37	0.00	0.00	0.00
18,600.00	90.22	130.545	5,273.98	-6,841.41	6,128.75	9,199.77	0.00	0.00	0.00
18,700.00	90.22	130.545	5,273.60	-6,906.41	6,204.74	9,299.18	0.00	0.00	0.00
18,800.00	90.22	130.545	5,273.21	-6,971.41	6,280.73	9,398.58	0.00	0.00	0.00
18,900.00	90.22	130.545	5,272.82	-7,036.42	6,356.72	9,497.98	0.00	0.00	0.00
19,000.00	90.22	130.545	5,272.43	-7,101.42	6,432.71	9,597.38	0.00	0.00	0.00
19,100.00	90.22	130.545	5,272.05	-7,166.42	6,508.70	9,696.79	0.00	0.00	0.00
19,200.00	90.22	130.545	5,271.66	-7,231.43	6,584.69	9,796.19	0.00	0.00	0.00
19,300.00	90.22	130.545	5,271.27	-7,296.43	6,660.68	9,895.59	0.00	0.00	0.00
19,400.00	90.22	130.545	5,270.88	-7,361.44	6,736.67	9,994.99	0.00	0.00	0.00
19,500.00	90.22	130.545	5,270.50	-7,426.44	6,812.65	10,094.40	0.00	0.00	0.00
19,600.00	90.22	130.545	5,270.11	-7,491.44	6,888.64	10,193.80	0.00	0.00	0.00
19,700.00	90.22	130.545	5,269.72	-7,556.45					0.00



Database: DT_Aug2923v16
Company: Enduring Resource

Company: Enduring Resources LLC
Project: Sandoval County, New Mexico NAD83 NM C

Site: North Alamito Unit (102 & 106)
Well: North Alamito Unit 106 H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site North Alamito Unit (102 & 106)

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Grid

ned 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)
19,800.00	90.22	130.545	5,269.33	-7,621.45	7,040.62	10,392.60	0.00	0.00	0.00
19,900.00	90.22	130.545	5,268.94	-7,686.45	7,116.61	10,492.01	0.00	0.00	0.00
20,000.00	90.22	130.545	5,268.56	-7,751.46	7,192.60	10,591.41	0.00	0.00	0.00
20,100.00	90.22	130.545	5,268.17	-7,816.46	7,268.59	10,690.81	0.00	0.00	0.00
20,200.00	90.22	130.545	5,267.78	-7,881.46	7,344.58	10,790.22	0.00	0.00	0.00
20,300.00	90.22	130.545	5,267.39	-7,946.47	7,420.57	10,889.62	0.00	0.00	0.00
20,400.00	90.22	130.545	5,267.01	-8,011.47	7,496.56	10,989.02	0.00	0.00	0.00
20,500.00	90.22	130.545	5,266.62	-8,076.47	7,572.55	11,088.42	0.00	0.00	0.00
20,600.00	90.22	130.545	5,266.23	-8,141.48	7,648.54	11,187.83	0.00	0.00	0.00
20,659.35	90.22	130.545	5,266.00	-8,180.06	7,693.64	11,246.82	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
North Alamito 106 BHL 1 - plan hits target cent - Point	0.00 ter	0.000	5,266.00	-8,180.06	7,693.64	1,892,987.793	1,246,801.458	36.195098000	-107.584016000
North Alamito 106 POE : - plan hits target cent - Point	0.00 ter	0.000	5,319.00	704.98	-2,693.03	1,901,872.814	1,236,414.814	36.219102000	-107.619634000

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	
	4,195.48	3,372.00	9 5/8" Csg		9-5/8	12-1/4	



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: Sandoval County, New Mexico NAD83 NM C
Site: North Alamito Unit (102 & 106)

Well: North Alamito Unit 106 H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site North Alamito Unit (102 & 106)

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Grid

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,081.25	1,072.32	Ojo Alamo		-0.22	130.545	
	1,203.25	1,187.46	Kirtland		-0.22	130.545	
	1,389.55	1,357.74	Fruitland		-0.22	130.545	
	1,789.22	1,693.52	Pictured Cliffs		-0.22	130.545	
	1,997.94	1,849.02	Lewis		-0.22	130.545	
	2,359.67	2,099.96	Chacra_A		-0.22	130.545	
	3,931.46	3,189.06	Cliff House_Basal		-0.22	130.545	
	3,989.41	3,229.22	Menefee		-0.22	130.545	
	5,191.79	4,062.35	Point Lookout		-0.22	130.545	
	5,496.01	4,273.15	Mancos		-0.22	130.545	
	5,913.10	4,611.94	MNCS_A		-0.22	130.545	
	6,016.48	4,711.98	MNCS_B		-0.22	130.545	
	6,105.71	4,798.96	MNCS_C		-0.22	130.545	
	6,152.37	4,843.92	MNCS_Cms		-0.22	130.545	
	6,287.32	4,968.75	MNCS_D		-0.22	130.545	
	6,422.27	5,080.47	MNCS_E		-0.22	130.545	
	6,496.80	5,134.27	MNCS_F		-0.22	130.545	
	6,620.00	5,207.89	MNCS_G		-0.22	130.545	
	6,743.73	5,267.48	MNCS_H		-0.22	130.545	
	6,812.74	5,292.23	MNCS_I		-0.22	130.545	

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	0
(ft)	(ft)	(ft)	(ft)	Comment
500.00	500.00	19.36	-4.45	KOP Begin 3°/100' build
2,037.98	1,877.06	230.00	-551.83	Begin 46.14° tangent
5,588.43	4,337.19	1,149.41	-2,941.01	Begin 10°/100' build/turn
6,628.58	5,212.24	926.42	-2,951.88	Begin 60.00° tangent
6,688.58	5,242.24	892.64	-2,912.40	Begin 10°/100' build
6,990.80	5,319.00	704.97	-2,693.02	Begin 90.22° lateral
20,659.35	5,266.00	-8,180.06	7,693.64	PBHL @ 20659.35 MD 5266.00 TVD



Site

Planning Report - Geographic

DT_Aug2923v16 Database:

Company: **Enduring Resources LLC**

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

Wellbore: Original Hole

Design: rev0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site North Alamito Unit (102 & 106)

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Minimum Curvature

Project Sandoval County, New Mexico NAD83 NM C

US State Plane 1983 Map System: North American Datum 1983 Geo Datum:

Map Zone: New Mexico Central Zone

Mean Sea Level System Datum:

North Alamito Unit (102 & 106)

1,901,167.832 usft Northing: Site Position: Latitude: 36.217270000 1,239,107.836 usft Lat/Long -107.610473000 From: Easting: Longitude:

13-3/16 ' **Position Uncertainty:** 0.00 ft Slot Radius:

Well North Alamito Unit 106 H, Surf loc: 897 FNL 1158 FEL Section 19-T23N-R07W

Well Position +N/-S 19.36 ft Northing: 1,901,187.193 usft Latitude: 36.217323000 +E/-W -4.45 ft Easting: 1,239,103.387 usft Longitude: -107.610489000

0.00 ft 6,962.00 ft Wellhead Elevation: ft Ground Level: **Position Uncertainty**

-0.80 **Grid Convergence:**

Wellbore Original Hole

Declination **Model Name** Sample Date Dip Angle Field Strength Magnetics (nT) (°) (°) IGRF2020 1/9/2024 8.47 62.70 49,055.23906377

Design rev0

Audit Notes:

Version: Phase: PI AN Tie On Depth: 0.00

+N/-S Vertical Section: Depth From (TVD) +E/-W Direction (ft) (ft) (ft) (°) 0.00 19.36 -4.45 136.806

Plan Survey Tool Program Date 1/9/2024

> **Depth From** Depth To

(ft) (ft) Survey (Wellbore) **Tool Name** Remarks

0.00 20,659.35 rev0 (Original Hole) MWD

OWSG MWD - Standard

Plan Sections Measured Vertical Build Turn Dogleg Depth Depth +N/-S +E/-W Inclination Azimuth Rate Rate Rate TFO (°/100ft) (°/100ft) (ft) (ft) (°/100ft) (°) (°) (ft) (ft) **Target** (°) 0.000 0.00 0.00 0.00 19.36 -4 45 0.00 0.00 0.00 0.00 -4.45 500.00 0.00 0.000 500.00 19.36 0.00 0.00 0.00 0.00 2,037.98 46.14 291.048 1,877.06 230.00 -551.83 3.00 3.00 0.00 291.05 5,588.43 46.14 291.048 4,337.19 1,149.41 -2,941.01 0.00 0.00 0.00 0.00 6.628.58 60.00 130.545 5.212.24 926.42 -2.951.88 10.00 1.33 -15.43 -162.67 0.00 6,688.58 60.00 130.545 5,242.24 892.64 -2,912.40 0.00 0.00 0.00 704.97 10.00 10.00 0.00 6,990.80 90.22 130.545 5,319.00 -2.693.020.00 20,659.35 90.22 130.545 5,266.00 -8,180.06 7,693.64 0.00 0.00 0.00 0.00 North Alamito 106 BH



Database: DT_Aug2923v16

Company: Enduring Resources LLC

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

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site North Alamito Unit (102 & 106)

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Grid

resign.	1640								
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	19.36	-4.45	1,901,187.193	1,239,103.387	36.217323000	-107.610489000
100.00	0.00	0.000	100.00	19.36	-4.45	1,901,187.193	1,239,103.387	36.217323000	-107.610489000
200.00	0.00	0.000	200.00	19.36	-4.45	1,901,187.193	1,239,103.387	36.217323000	-107.610489000
300.00	0.00	0.000	300.00	19.36	-4.45	1,901,187.193	1,239,103.387	36.217323000	-107.610489000
400.00	0.00	0.000	400.00	19.36	-4.45	1,901,187.193	1,239,103.387	36.217323000	-107.610489000
500.00	0.00	0.000	500.00	19.36	-4.45	1,901,187.193	1,239,103.387	36.217323000	-107.610489000
600.00	3.00	291.048	599.95	20.30	-6.89	1,901,188.133	1,239,100.944	36.217325488	-107.610497324
700.00	6.00	291.048	699.63	23.12	-14.21	1,901,190.950	1,239,093.623	36.217332944	-107.610522273
800.00	9.00	291.048	798.77	27.81	-26.39	1,901,195.637	1,239,081.442	36.217345347	-107.610563778
900.00	12.00	291.048	897.08	34.35	-43.40	1,901,202.182	1,239,064.437	36.217362664	-107.610621725
1,000.00	15.00	291.048	994.31	42.73	-65.18	1,901,210.565	1,239,042.652	36.217384848	-107.610695957
1,100.00	18.00	291.048	1,090.18	52.93	-91.69	1,901,220.764	1,239,016.149	36.217411837	-107.610786269
1,200.00	21.00	291.048	1,184.43	64.92	-122.84	1,901,232.751	1,238,984.999	36.217443557	-107.610892413
1,300.00	24.00	291.048	1,276.81	78.66	-158.55	1,901,246.493	1,238,949.288	36.217479922	-107.611014100
1,400.00	27.00	291.048	1,367.06	94.12	-198.72	1,901,261.953	1,238,909.114	36.217520832	-107.611150995
1,500.00	30.00	291.048	1,454.93	111.26	-243.25	1,901,279.088	1,238,864.587	36.217566174	-107.611302724
1,600.00	33.00	291.048	1,540.18	130.02	-292.01	1,901,297.852	1,238,815.828	36.217615824	-107.611468870
1,700.00	36.00	291.048	1,622.59	150.36	-344.86	1,901,318.192	1,238,762.973	36.217669646	-107.611648978
1,800.00	39.00	291.048	1,701.91	172.22	-401.67	1,901,340.053	1,238,706.165	36.217727493	-107.611842554
1,900.00	42.00	291.048	1,777.95	195.54	-462.28	1,901,363.375	1,238,645.560	36.217789206	-107.612049069
2,000.00	45.00	291.048	1,850.47	220.26	-526.51	1,901,388.094	1,238,581.325	36.217854615	-107.612267956
2,037.98	46.14	291.048	1,877.06	230.00	-551.83	1,901,397.835	1,238,556.010	36.217880392	-107.612354217
2,100.00	46.14	291.048	1,920.04	246.06	-593.56	1,901,413.895	1,238,514.279	36.217922886	-107.612496421
2,200.00	46.14	291.048	1,989.33	271.96	-660.85	1,901,439.790	1,238,446.987	36.217991407	-107.612725725
2,300.00	46.14	291.048	2,058.62	297.85	-728.14	1,901,465.686	1,238,379.694	36.218059928	-107.612955028
2,400.00	46.14	291.048	2,127.91	323.75	-795.44	1,901,491.581	1,238,312.402	36.218128448	-107.613184333
2,500.00	46.14	291.048	2,197.20	349.65	-862.73	1,901,517.477	1,238,245.110	36.218196968	-107.613413638
2,600.00	46.14	291.048	2,266.49	375.54	-930.02	1,901,543.372	1,238,177.818	36.218265487	-107.613642943
2,700.00	46.14	291.048	2,335.78	401.44	-997.31	1,901,569.268	1,238,110.526	36.218334006	-107.613872249
2,800.00	46.14	291.048	2,405.07	427.33	-1,064.60	1,901,595.163	1,238,043.234	36.218402524	-107.614101555
2,900.00	46.14	291.048	2,474.36	453.23	-1,131.90	1,901,621.059	1,237,975.942	36.218471042	-107.614330862
3,000.00	46.14	291.048	2,543.65	479.12	-1,199.19	1,901,646.954	1,237,908.649	36.218539559	-107.614560169
3,100.00	46.14	291.048	2,612.94	505.02	-1,266.48	1,901,672.850	1,237,841.357	36.218608076	-107.614789476
3,200.00	46.14	291.048	2,682.23	530.91	-1,333.77	1,901,698.745	1,237,774.065	36.218676593	-107.615018784
3,300.00	46.14	291.048	2,751.52	556.81	-1,401.07	1,901,724.641	1,237,706.773	36.218745109	-107.615248092
3,400.00	46.14	291.048	2,820.81	582.71	-1,468.36	1,901,750.536	1,237,639.481	36.218813625	-107.615477400
3,500.00	46.14	291.048	2,890.10	608.60	-1,535.65	1,901,776.432	1,237,572.189	36.218882140	-107.615706709
3,600.00	46.14	291.048	2,959.39	634.50	-1,602.94	1,901,802.327	1,237,504.896	36.218950655	-107.615936019
3,700.00	46.14	291.048	3,028.68	660.39	-1,670.24	1,901,828.223	1,237,437.604	36.219019169	-107.616165328
3,800.00	46.14	291.048	3,097.97	686.29	-1,737.53	1,901,854.118	1,237,370.312	36.219087683	-107.616394638
3,900.00	46.14	291.048	3,167.26	712.18	-1,804.82	1,901,880.014	1,237,303.020	36.219156196	-107.616623949
4,000.00	46.14	291.048	3,236.55	738.08	-1,872.11	1,901,905.909	1,237,235.728	36.219224709	-107.616853259
4,100.00	46.14	291.048	3,305.84	763.97	-1,939.40	1,901,931.805	1,237,168.436	36.219293222	-107.617082571
4,200.00	46.14	291.048	3,375.14	789.87	-2,006.70	1,901,957.700	1,237,101.143	36.219361734	-107.617311882
4,300.00	46.14	291.048	3,444.43	815.77	-2,073.99	1,901,983.596	1,237,033.851	36.219430246	-107.617541194
4,400.00	46.14	291.048	3,513.72	841.66	-2,141.28	1,902,009.491	1,236,966.559	36.219498757	-107.617770507
4,500.00	46.14	291.048	3,583.01	867.56	-2,208.57	1,902,035.387	1,236,899.267	36.219567268	-107.617999819
4,600.00	46.14	291.048	3,652.30	893.45	-2,275.87	1,902,061.282	1,236,831.975	36.219635778	-107.618229132
4,700.00	46.14	291.048	3,721.59	919.35	-2,343.16	1,902,087.178	1,236,764.683	36.219704288	-107.618458446
4,800.00	46.14	291.048	3,790.88	945.24	-2,410.45	1,902,113.073	1,236,697.390	36.219772797	-107.618687760
4,900.00	46.14	291.048	3,860.17	971.14	-2,477.74	1,902,138.969	1,236,630.098	36.219841306	-107.618917074
5,000.00	46.14	291.048	3,929.46	997.03	-2,545.04	1,902,164.864	1,236,562.806	36.219909814	-107.619146389
5,100.00	46.14	291.048	3,998.75	1,022.93	-2,612.33	1,902,190.760	1,236,495.514	36.219978323	-107.619375704
5,200.00	46.14	291.048	4,068.04	1,048.83	-2,679.62	1,902,216.655	1,236,428.222	36.220046830	-107.619605019
5,300.00	46.14	291.048	4,137.33	1,074.72	-2,746.91	1,902,242.551	1,236,360.930	36.220115337	-107.619834335



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: Sandoval County, New Mexico NAD83 NM C Site: North Alamito Unit (102 & 106)

Well: North Alamito Unit 106 H
Wellbore: Original Hole

Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site North Alamito Unit (102 & 106)

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Grid

Planned Survey	/								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,400.00		291.048	4,206.62	1,100.62	-2,814.20	1,902,268.447	1,236,293.638	36.220183844	-107.620063651
5,500.00		291.048	4,275.91	1,126.51	-2,881.50	1,902,294.342	1,236,226.345	36.220252350	-107.620292968
5,588.43		291.048	4,337.19	1,149.41	-2,941.01	1,902,317.242	1,236,166.836	36.220312933	-107.620495763
5,600.00		290.561	4,345.28	1,152.35	-2,948.73	1,902,320.177	1,236,159.113	36.220320692	-107.620522078
5,650.00 5,700.00		288.216	4,382.04 4,421.46	1,163.62	-2,980.67	1,902,331.451	1,236,127.173 1,236,097.760	36.220350414 36.220373762	-107.620630875
5,750.00		285.367 281.789	4,463.23	1,172.54 1,179.03	-3,010.08 -3,036.74	1,902,340.368 1,902,346.861	1,236,097.760	36.220390559	-107.620730993 -107.620821671
5,800.00		277.124	4,403.23	1,179.03	-3,030.74	1,902,350.881	1,236,047.390	36.220400677	-107.620902219
5,850.00		270.779	4,552.58	1,184.57	-3,081.03	1,902,352.396	1,236,026.816	36.220404039	-107.620972023
5,900.00		261.761	4,599.47	1,183.57	-3,098.31	1,902,351.395	1,236,009.533	36.220400620	-107.621030553
5,950.00		248.563	4,647.37	1,180.06	-3,112.17	1,902,347.887	1,235,995.673	36.220390446	-107.621077363
6,000.00		229.799	4,695.91	1,174.07	-3,122.50	1,902,341.896	1,235,985.340	36.220373593	-107.621112096
6,050.00	12.48	206.998	4,744.71	1,165.64	-3,129.23	1,902,333.470	1,235,978.614	36.220350191	-107.621134489
6,100.00	13.91	185.869	4,793.42	1,154.84	-3,132.30	1,902,322.673	1,235,975.546	36.220320417	-107.621144370
6,150.00	16.75	170.194	4,841.66	1,141.76	-3,131.68	1,902,309.585	1,235,976.159	36.220284499	-107.621141666
6,200.00	20.42	159.464	4,889.06	1,126.48	-3,127.39	1,902,294.308	1,235,980.449	36.220242708	-107.621126395
6,250.00		152.042	4,935.25	1,109.13	-3,119.46	1,902,276.957	1,235,988.382	36.220195365	-107.621098675
6,300.00		146.696	4,979.90	1,089.83	-3,107.94	1,902,257.664	1,235,999.898	36.220142827	-107.621058717
6,350.00		142.673	5,022.66	1,068.75	-3,092.93	1,902,236.577	1,236,014.911	36.220085497	-107.621006824
6,400.00		139.522	5,063.21	1,046.03	-3,074.54	1,902,213.855	1,236,033.304	36.220023809	-107.620943392
6,450.00		136.967	5,101.23	1,021.84	-3,052.90	1,902,189.672	1,236,054.940	36.219958234	-107.620868904
6,500.00 6,550.00		134.830 132.997	5,136.43 5,168.56	996.38 969.84	-3,028.19 -3,000.59	1,902,164.211 1,902,137.667	1,236,079.652 1,236,107.253	36.219889270 36.219817442	-107.620783926 -107.620689105
6,600.00		131.387	5,100.36	969.64	-2,970.31	1,902,137.667	1,236,107.253	36.219743298	-107.620669105
6,628.58		130.545	5,212.24	926.42	-2,970.31	1,902,094.248	1,236,155.958	36.219700089	-107.620521949
6,688.58		130.545	5,242.24	892.64	-2,912.40	1,902,060.471	1,236,195.443	36.219608858	-107.620386502
6,700.00		130.545	5,247.85	886.18	-2,904.84	1,902,054.007	1,236,203.000	36.219591399	-107.620360580
6,750.00		130.545	5,270.04	857.06	-2,870.81	1,902,024.893	1,236,237.034	36.219512764	-107.620243834
6,800.00	71.14	130.545	5,288.25	826.80	-2,835.43	1,901,994.633	1,236,272.408	36.219431032	-107.620122490
6,850.00	76.14	130.545	5,302.32	795.63	-2,798.99	1,901,963.457	1,236,308.853	36.219346825	-107.619997472
6,900.00	81.14	130.545	5,312.17	763.77	-2,761.75	1,901,931.601	1,236,346.092	36.219260784	-107.619869732
6,950.00	86.14	130.545	5,317.70	731.48	-2,724.00	1,901,899.310	1,236,383.842	36.219173565	-107.619740243
6,990.80		130.545	5,319.00	704.97	-2,693.02	1,901,872.805	1,236,414.826	36.219101974	-107.619633957
7,000.00		130.545	5,318.96	699.00	-2,686.03	1,901,866.827	1,236,421.814	36.219085828	-107.619609986
7,100.00		130.545	5,318.57	633.99	-2,610.04	1,901,801.823	1,236,497.804	36.218910254	-107.619349324
7,200.00		130.545	5,318.19	568.99	-2,534.05	1,901,736.820	1,236,573.793	36.218734679	-107.619088664
7,300.00		130.545	5,317.80	503.99	-2,458.06	1,901,671.817	1,236,649.782	36.218559104	-107.618828004
7,400.00 7,500.00		130.545 130.545	5,317.41 5,317.02	438.98 373.98	-2,382.07 -2,306.08	1,901,606.813 1,901,541.810	1,236,725.771 1,236,801.761	36.218383528 36.218207951	-107.618567346 -107.618306688
7,600.00		130.545	5,316.64	308.98	-2,300.00	1,901,476.807	1,236,877.750	36.218032374	-107.618046032
7,700.00		130.545	5,316.25	243.97	-2,250.09	1,901,411.803	1,236,953.739	36.217856796	-107.617785377
7,800.00		130.545	5,315.86	178.97	-2,078.11	1,901,346.800	1,237,029.729	36.217681218	-107.617524723
7,900.00		130.545	5,315.47	113.96	-2,002.12	1,901,281.797	1,237,105.718	36.217505639	-107.617264071
8,000.00	90.22	130.545	5,315.08	48.96	-1,926.13	1,901,216.793	1,237,181.707	36.217330059	-107.617003419
8,100.00	90.22	130.545	5,314.70	-16.04	-1,850.14	1,901,151.790	1,237,257.697	36.217154479	-107.616742769
8,200.00	90.22	130.545	5,314.31	-81.05	-1,774.15	1,901,086.787	1,237,333.686	36.216978898	-107.616482120
8,300.00		130.545	5,313.92	-146.05	-1,698.16	1,901,021.783	1,237,409.675	36.216803317	-107.616221472
8,400.00		130.545	5,313.53	-211.05	-1,622.18	1,900,956.780	1,237,485.664	36.216627735	-107.615960825
8,500.00		130.545	5,313.15	-276.06	-1,546.19	1,900,891.777	1,237,561.654	36.216452152	-107.615700179
8,600.00		130.545	5,312.76	-341.06	-1,470.20	1,900,826.773	1,237,637.643	36.216276569	-107.615439535
8,700.00		130.545	5,312.37	-406.06	-1,394.21	1,900,761.770	1,237,713.632	36.216100985	-107.615178891
8,800.00		130.545	5,311.98	-471.07	-1,318.22	1,900,696.767	1,237,789.622	36.215925401	-107.614918249
8,900.00		130.545	5,311.60 5,311.21	-536.07	-1,242.23 1 166 24	1,900,631.763	1,237,865.611	36.215749816	-107.614657608
9,000.00 9,100.00		130.545 130.545	5,311.21 5,310.82	-601.07 -666.08	-1,166.24 -1,090.25	1,900,566.760 1,900,501.756	1,237,941.600 1,238,017.590	36.215574230 36.215398644	-107.614396968 -107.614136329
3,100.00	30.22	100.040	0,010.02	-000.00	-1,030.23	1,300,301.730	1,200,017.080	30.2 13330044	-107.014130329



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: Sandoval County, New Mexico NAD83 NM C
Site: North Alamito Unit (102 & 106)

Well: North Alamito Unit 106 H
Wellbore: Original Hole

Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site North Alamito Unit (102 & 106)

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,200.00	90.22	130.545	5,310.43	-731.08	-1,014.26	1,900,436.753	1,238,093.579	36.215223057	-107.613875692
9,300.00	90.22	130.545	5,310.04	-796.08	-938.27	1,900,371.750	1,238,169.568	36.215047470	-107.613615055
9,400.00	90.22	130.545	5,309.66	-861.09	-862.28	1,900,306.746	1,238,245.557	36.214871882	-107.613354420
9,500.00	90.22	130.545	5,309.27	-926.09	-786.29	1,900,241.743	1,238,321.547	36.214696293	-107.613093786
9,600.00	90.22	130.545	5,308.88	-991.09	-710.30	1,900,176.740	1,238,397.536	36.214520704	-107.612833154
9,700.00	90.22	130.545 130.545	5,308.49	-1,056.10	-634.31	1,900,111.736	1,238,473.525	36.214345115	-107.612572522
9,800.00 9,900.00	90.22 90.22	130.545	5,308.11 5,307.72	-1,121.10 -1,186.10	-558.32 -482.33	1,900,046.733 1,899,981.730	1,238,549.515 1,238,625.504	36.214169524	-107.612311892 -107.612051262
10,000.00	90.22	130.545	5,307.72	-1,160.10	-402.33 -406.34	1,899,916.726	1,238,701.493	36.213993933 36.213818342	-107.611790634
10,100.00	90.22	130.545	5,306.94	-1,231.11	-330.35	1,899,851.723	1,238,777.483	36.213642750	-107.611530007
10,200.00	90.22	130.545	5,306.55	-1,381.12	-254.37	1,899,786.720	1,238,853.472	36.213467157	-107.611269381
10,300.00	90.22	130.545	5,306.17	-1,446.12	-178.38	1,899,721.716	1,238,929.461	36.213291563	-107.611008756
10,400.00	90.22	130.545	5,305.78	-1,511.12	-102.39	1,899,656.713	1,239,005.450	36.213115970	-107.610748132
10,500.00	90.22	130.545	5,305.39	-1,576.13	-26.40	1,899,591.710	1,239,081.440	36.212940375	-107.610487510
10,600.00	90.22	130.545	5,305.00	-1,641.13	49.59	1,899,526.706	1,239,157.429	36.212764780	-107.610226888
10,700.00	90.22	130.545	5,304.62	-1,706.13	125.58	1,899,461.703	1,239,233.418	36.212589184	-107.609966268
10,800.00	90.22	130.545	5,304.23	-1,771.14	201.57	1,899,396.700	1,239,309.408	36.212413588	-107.609705649
10,900.00	90.22	130.545	5,303.84	-1,836.14	277.56	1,899,331.696	1,239,385.397	36.212237991	-107.609445031
11,000.00	90.22	130.545	5,303.45	-1,901.14	353.55	1,899,266.693	1,239,461.386	36.212062393	-107.609184415
11,100.00	90.22	130.545	5,303.06	-1,966.15	429.54	1,899,201.690	1,239,537.376	36.211886795	-107.608923799
11,200.00	90.22	130.545	5,302.68	-2,031.15	505.53	1,899,136.686	1,239,613.365	36.211711196	-107.608663185
11,300.00	90.22	130.545	5,302.29	-2,096.15	581.52	1,899,071.683	1,239,689.354	36.211535597	-107.608402571
11,400.00	90.22	130.545	5,301.90	-2,161.16	657.51	1,899,006.680	1,239,765.343	36.211359997	-107.608141959
11,500.00	90.22	130.545	5,301.51	-2,226.16	733.50	1,898,941.676	1,239,841.333	36.211184397	-107.607881348
11,600.00	90.22	130.545	5,301.13	-2,291.16	809.49	1,898,876.673	1,239,917.322	36.211008796	-107.607620739
11,700.00	90.22	130.545	5,300.74	-2,356.17	885.48	1,898,811.669	1,239,993.311	36.210833194	-107.607360130
11,800.00	90.22	130.545	5,300.35	-2,421.17	961.47	1,898,746.666	1,240,069.301	36.210657592	-107.607099523
11,900.00	90.22	130.545	5,299.96	-2,486.17	1,037.46	1,898,681.663	1,240,145.290	36.210481989	-107.606838916
12,000.00	90.22	130.545	5,299.58	-2,551.18	1,113.45	1,898,616.659	1,240,221.279	36.210306385	-107.606578311
12,100.00	90.22	130.545	5,299.19	-2,616.18	1,189.43	1,898,551.656	1,240,297.269	36.210130781	-107.606317707
12,200.00	90.22	130.545	5,298.80	-2,681.18	1,265.42	1,898,486.653	1,240,373.258	36.209955176	-107.606057105
12,300.00	90.22 90.22	130.545	5,298.41	-2,746.19	1,341.41	1,898,421.649	1,240,449.247	36.209779571	-107.605796503
12,400.00		130.545	5,298.02	-2,811.19	1,417.40	1,898,356.646	1,240,525.236	36.209603965	-107.605535902
12,500.00 12,600.00	90.22 90.22	130.545 130.545	5,297.64 5,297.25	-2,876.20 -2,941.20	1,493.39 1,569.38	1,898,291.643 1,898,226.639	1,240,601.226 1,240,677.215	36.209428359 36.209252752	-107.605275303 -107.605014705
12,700.00	90.22	130.545	5,296.86	-3,006.20	1,645.37	1,898,161.636	1,240,7753.204	36.209077144	-107.604754108
12,800.00	90.22	130.545	5,296.47	-3,000.20	1,721.36	1,898,096.633	1,240,733.204	36.208901536	-107.604493512
12,900.00	90.22	130.545	5,296.47	-3,071.21	1,721.30	1,898,031.629	1,240,905.183	36.208725927	-107.604232917
13,000.00	90.22	130.545	5,295.70	-3,130.21	1,873.34	1,897,966.626	1,240,981.172	36.208550317	-107.603972324
13,100.00	90.22	130.545	5.295.31	-3,266.22	1,949.33	1,897,900.623	1.241.057.162	36.208374707	-107.603711732
13,200.00	90.22	130.545	5,294.92	-3,331.22	2,025.32	1,897,836.619	1,241,133.151	36.208199096	-107.603451140
13,300.00	90.22	130.545	5,294.53	-3,396.22	2,101.31	1,897,771.616	1,241,209.140	36.208023485	-107.603190550
13,400.00	90.22	130.545	5,294.15	-3,461.23	2,177.30	1,897,706.613	1,241,285.129	36.207847873	-107.602929961
13,500.00	90.22	130.545	5,293.76	-3,526.23	2,253.29	1,897,641.609	1,241,361.119	36.207672261	-107.602669374
13,600.00	90.22	130.545	5,293.37	-3,591.23	2,329.28	1,897,576.606	1,241,437.108	36.207496648	-107.602408787
13,700.00	90.22	130.545	5,292.98	-3,656.24	2,405.27	1,897,511.603	1,241,513.097	36.207321034	-107.602148202
13,800.00	90.22	130.545	5,292.60	-3,721.24	2,481.26	1,897,446.599	1,241,589.087	36.207145420	-107.601887617
13,900.00	90.22	130.545	5,292.21	-3,786.24	2,557.24	1,897,381.596	1,241,665.076	36.206969805	-107.601627034
14,000.00	90.22	130.545	5,291.82	-3,851.25	2,633.23	1,897,316.593	1,241,741.065	36.206794190	-107.601366452
14,100.00	90.22	130.545	5,291.43	-3,916.25	2,709.22	1,897,251.589	1,241,817.055	36.206618574	-107.601105872
14,200.00	90.22	130.545	5,291.05	-3,981.25	2,785.21	1,897,186.586	1,241,893.044	36.206442957	-107.600845292
14,300.00	90.22	130.545	5,290.66	-4,046.26	2,861.20	1,897,121.582	1,241,969.033	36.206267340	-107.600584714
14,400.00	90.22	130.545	5,290.27	-4,111.26	2,937.19	1,897,056.579	1,242,045.022	36.206091722	-107.600324136
14,500.00	90.22	130.545	5,289.88	-4,176.26	3,013.18	1,896,991.576	1,242,121.012	36.205916103	-107.600063560
14,600.00	90.22	130.545	5,289.49	-4,241.27	3,089.17	1,896,926.572	1,242,197.001	36.205740484	-107.599802985



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: Sandoval County, New Mexico NAD83 NM C
Site: North Alamito Unit (102 & 106)

Well: North Alamito Unit 106 H
Wellbore: Original Hole

Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site North Alamito Unit (102 & 106)

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Grid

Planned Survey	
Planned Survey	
Measured Vertical Map Map Depth Inclination Azimuth Depth +N/-S +E/-W Northing Easting (ft) (°) (°) (ft) (ft) (ft) (usft) Latitut	ide Longitude
	107 5005 42411
	05564865 -107.599542411
	05389244 -107.599281839
	05213624 -107.599021267
	05038002 -107.598760697
	04862380 -107.598500128
	04686758 -107.598239560
	04511134 -107.597978993
	04335511 -107.597718427
	04159886 -107.597457863
	03984261 -107.597197299
	03808636 -107.596936737
	03633009 -107.596676176
	03457383 -107.596415616
	03281755 -107.596155057
	03106127 -107.595894500
	2930499 -107.595633943
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	02754869 -107.595373388
	02579240 -107.595112834
	02403609 -107.594852281
	02227978 -107.594591729
	02052347 -107.594331178
	01876715 -107.594070629
	01701082 -107.593810081
	01525448 -107.593549533
	01349814 -107.593288987
	01174180 -107.593028443
	00998545 -107.592767899
	00822909 -107.592507356
17,500.00 90.22 130.545 5,278.25 -6,126.37 5,292.87 1,895,041.475 1,244,400.691 36.20	00647273 -107.592246815
17,600.00 90.22 130.545 5,277.86 -6,191.37 5,368.85 1,894,976.472 1,244,476.680 36.20	00471636 -107.591986275
17,700.00 90.22 130.545 5,277.47 -6,256.38 5,444.84 1,894,911.469 1,244,552.669 36.20	00295998 -107.591725736
17,800.00 90.22 130.545 5,277.09 -6,321.38 5,520.83 1,894,846.465 1,244,628.659 36.20	00120360 -107.591465198
17,900.00 90.22 130.545 5,276.70 -6,386.38 5,596.82 1,894,781.462 1,244,704.648 36.19	99944721 -107.591204661
18,000.00 90.22 130.545 5,276.31 -6,451.39 5,672.81 1,894,716.459 1,244,780.637 36.19	99769082 -107.590944126
18,100.00 90.22 130.545 5,275.92 -6,516.39 5,748.80 1,894,651.455 1,244,856.627 36.19	99593442 -107.590683591
18,200.00 90.22 130.545 5,275.54 -6,581.39 5,824.79 1,894,586.452 1,244,932.616 36.19	99417801 -107.590423058
18,300.00 90.22 130.545 5,275.15 -6,646.40 5,900.78 1,894,521.449 1,245,008.605 36.19	99242160 -107.590162526
18,400.00 90.22 130.545 5,274.76 -6,711.40 5,976.77 1,894,456.445 1,245,084.594 36.19	99066519 -107.589901995
18,500.00 90.22 130.545 5,274.37 -6,776.40 6,052.76 1,894,391.442 1,245,160.584 36.19	98890876 -107.589641465
18,600.00 90.22 130.545 5,273.98 -6,841.41 6,128.75 1,894,326.439 1,245,236.573 36.19	98715233 -107.589380936
18,700.00 90.22 130.545 5,273.60 -6,906.41 6,204.74 1,894,261.435 1,245,312.562 36.19	98539590 -107.589120409
18,800.00 90.22 130.545 5,273.21 -6,971.41 6,280.73 1,894,196.432 1,245,388.552 36.19	98363946 -107.588859883
18,900.00 90.22 130.545 5,272.82 -7,036.42 6,356.72 1,894,131.429 1,245,464.541 36.19	98188301 -107.588599357
19,000.00 90.22 130.545 5,272.43 -7,101.42 6,432.71 1,894,066.425 1,245,540.530 36.19	98012656 -107.588338834
19,100.00 90.22 130.545 5,272.05 -7,166.42 6,508.70 1,894,001.422 1,245,616.520 36.19	97837010 -107.588078311
19,200.00 90.22 130.545 5,271.66 -7,231.43 6,584.69 1,893,936.418 1,245,692.509 36.19	97661363 -107.587817789
	97485716 -107.587557268
	97310069 -107.587296749
	97134420 -107.587036231
	96958771 -107.586775714
	96783122 -107.586515198
	96607472 -107.586254683
	96431821 -107.585994170
	96256170 -107.585733657
	96080518 -107.585473146



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: Sandoval County, New Mexico NAD83 NM C

Site: North Alamito Unit (102 & 106)
Well: North Alamito Unit 106 H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site North Alamito Unit (102 & 106)

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Grid

Planned Survey	,								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,200.00	90.22	130.545	5,267.78	-7,881.46	7,344.58	1,893,286.385	1,246,452.402	36.195904866	-107.585212636
20,300.00	90.22	130.545	5,267.39	-7,946.47	7,420.57	1,893,221.382	1,246,528.391	36.195729213	-107.584952127
20,400.00	90.22	130.545	5,267.01	-8,011.47	7,496.56	1,893,156.378	1,246,604.380	36.195553559	-107.584691619
20,500.00	90.22	130.545	5,266.62	-8,076.47	7,572.55	1,893,091.375	1,246,680.370	36.195377905	-107.584431113
20,600.00	90.22	130.545	5,266.23	-8,141.48	7,648.54	1,893,026.372	1,246,756.359	36.195202250	-107.584170607
20,659.35	90.22	130.545	5,266.00	-8,180.06	7,693.64	1,892,987.793	1,246,801.458	36.195098000	-107.584016000

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
North Alamito 106 BHL 1 - plan hits target cen - Point		0.000	5,266.00	-8,180.06	7,693.64	1,892,987.793	1,246,801.458	36.195098000	-107.584016000
North Alamito 106 POE : - plan hits target cen - Point		0.000	5,319.00	704.98	-2,693.03	1,901,872.814	1,236,414.814	36.219102000	-107.619634000

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	350.00 4,195.48		13 3/8" Csg 9 5/8" Csg		13-3/8 9-5/8	17-1/2 12-1/4	



Project:

Planning Report - Geographic

DT_Aug2923v16 Database: Company:

Enduring Resources LLC

Sandoval County, New Mexico NAD83 NM C

Site: North Alamito Unit (102 & 106) Well: North Alamito Unit 106 H Wellbore:

Original Hole

Design: rev0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site North Alamito Unit (102 & 106)

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,081.25	1,072.32	Ojo Alamo		-0.22	130.545	
	1,203.25	1,187.46	Kirtland		-0.22	130.545	
	1,389.55	1,357.74	Fruitland		-0.22	130.545	
	1,789.22	1,693.52	Pictured Cliffs		-0.22	130.545	
	1,997.94	1,849.02	Lewis		-0.22	130.545	
	2,359.67	2,099.96	Chacra_A		-0.22	130.545	
	3,931.46	3,189.06	Cliff House_Basal		-0.22	130.545	
	3,989.41	3,229.22	Menefee		-0.22	130.545	
	5,191.79	4,062.35	Point Lookout		-0.22	130.545	
	5,496.01	4,273.15	Mancos		-0.22	130.545	
	5,913.10	4,611.94	MNCS_A		-0.22	130.545	
	6,016.48	4,711.98	MNCS_B		-0.22	130.545	
	6,105.71	4,798.96	MNCS_C		-0.22	130.545	
	6,152.37	4,843.92	MNCS_Cms		-0.22	130.545	
	6,287.32	4,968.75	MNCS_D		-0.22	130.545	
	6,422.27	5,080.47	MNCS_E		-0.22	130.545	
	6,496.80	5,134.27	MNCS_F		-0.22	130.545	
	6,620.00	5,207.89	MNCS_G		-0.22	130.545	
	6,743.73	5,267.48	MNCS_H		-0.22	130.545	
	6,812.74	5,292.23	MNCS_I		-0.22	130.545	

Plan Annotations					
Me	easured	Vertical	Local Coord	dinates	
	Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
	500.00	500.00	19.36	-4.45	KOP Begin 3°/100' build
	2,037.98	1,877.06	230.00	-551.83	Begin 46.14° tangent
	5,588.43	4,337.19	1,149.41	-2,941.01	Begin 10°/100' build/turn
	6,628.58	5,212.24	926.42	-2,951.88	Begin 60.00° tangent
	6,688.58	5,242.24	892.64	-2,912.40	Begin 10°/100' build
	6,990.80	5,319.00	704.97	-2,693.02	Begin 90.22° lateral
2	0,659.35	5,266.00	-8,180.06	7,693.64	PBHL @ 20659.35 MD 5266.00 TVD



TVD Reference:

MD Reference:

Company: Enduring Resources LLC

Project: Sandoval County, New Mexico NAD83 NM C

Reference Site: North Alamito Unit (102 & 106)

Site Error: 0.00 ft

Reference Well: North Alamito Unit 106 H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev0

Local Co-ordinate Reference:

Site North Alamito Unit (102 & 106)

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

North Reference: Grid

 Survey Calculation Method:
 Minimum Curvature

 Output errors are at
 2.00 sigma

 Database:
 DT_Aug2923v16

 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 2,265.93ft
 Error Surface:
 Ellipsoid Separation

 Warning Levels Evaluated at:
 2.00
 Sigma
 Casing Method:
 Not applied

 From (ft)
 To (ft)
 Survey (Wellbore)
 Tool Name
 Description

 0.00
 20,659.35 rev0 (Original Hole)
 MWD
 OWSG MWD - Standard

Summary							
		Reference	Offset	Dista	nce		
Site Name Offset Well - We	illbore - Design	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
North Alamito Unit (102 & 106)						
	nit 102 H - Original Hole - rev0 nit 102 H - Original Hole - rev0	500.00 17,700.00	500.00 15,330.24	19.87 1,200.29	16.73 696.85	6.333 CC, ES 2.384 SF	

Offset Des	sign: No	rth Alamito	Unit (102	& 106) - No	orth Alam	ito Unit 102	H - Original Ho	le - rev0					Offset Site Error:	0.00 ft
Survey Progr Refer	ram: 0-l rence	MWD Offs	set	Semi M	lajor Axis		Offset Wellbo	ore Centre	Dist	Rule Assi tance	gned:		Offset Well Error:	0.00 ft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor		
0.00	0.00	0.00	0.00	0.00	0.00	167.06	0.00	0.00	19.87					
100.00	100.00	100.00	100.00	0.13	0.13	167.06	0.00	0.00	19.87	19.60	0.27	73.889		
200.00	200.00	200.00	200.00	0.49	0.49	167.06	0.00	0.00	19.87	18.88	0.99	20.152		
300.00	300.00	300.00	300.00	0.85	0.85	167.06	0.00	0.00	19.87	18.16	1.70	11.667		
400.00	400.00	400.00	400.00	1.21	1.21	167.06	0.00	0.00	19.87	17.45	2.42	8.210		
500.00	500.00	500.00	500.00	1.57	1.57	167.06	0.00	0.00	19.87	16.73	3.14	6.333 CC, I	ES	
600.00	599.95	599.95	599.95	1.92	1.93	-129.76	0.00	0.00	21.44	17.59	3.85	5.569		
700.00	699.63	699.63	699.63	2.28	2.28	-142.48	0.00	0.00	27.14	22.57	4.57	5.944		
800.00	798.77	798.77	798.77	2.66	2.64	-154.28	0.00	0.00	38.34	33.05	5.29	7.250		
900.00	897.08	897.08	897.08	3.06	2.99	-162.32	0.00	0.00	55.35	49.34	6.01	9.208		
1,000.00	994.31	994.31	994.31	3.50	3.34	-167.38	0.00	0.00	77.94	71.21	6.73	11.577		
1,100.00	1,090.18	1,095.31	1,095.27	4.00	3.70	-170.98	1.53	-1.82	103.66	96.20	7.46	13.898		
1,200.00	1,184.43	1,197.84	1,197.48	4.57	4.07	-173.98	6.59	-7.83	129.61	121.43	8.18	15.841		
1,300.00	1,276.81	1,301.66	1,300.41	5.22	4.45	-176.68	15.31	-18.19	155.79	146.89	8.91	17.491		
1,400.00	1,367.06	1,406.78	1,403.71	5.95	4.85	-179.22	27.80	-33.01	182.22	172.58	9.64	18.903		
1,500.00	1,454.93	1,513.18	1,507.03	6.79	5.29	178.32	44.14	-52.42	208.89	198.50	10.39	20.111		
1,600.00	1,540.18	1,620.86	1,609.98	7.72	5.79	175.91	64.43	-76.52	235.82	224.66	11.16	21.135		
1,700.00	1,622.59	1,729.80	1,712.17	8.76	6.36	173.54	88.72	-105.37	263.02	251.05	11.97	21.965		
1,800.00	1,701.91	1,839.98	1,813.16	9.92	7.01	171.17	117.07	-139.04	290.51	277.65	12.86	22.594		
1,900.00	1,777.95	1,951.40	1,912.54	11.18	7.77	168.82	149.50	-177.56	318.28	304.45	13.83	23.014		
2,000.00	1,850.47	2,046.34	1,995.92	12.56	8.48	166.99	178.74	-212.28	348.74	333.80	14.94	23.346		
2,100.00	1,920.04	2,139.90	2,078.09	14.04	9.21	165.70	207.56	-246.51	383.28	367.20	16.08	23.836		
2,200.00	1,989.33	2,233.35	2,160.16	15.54	9.97	164.71	236.34	-280.69	418.30	401.04	17.26	24.239		
2,300.00	2,058.62	2,326.80	2,242.23	17.07	10.75	163.88	265.12	-314.88	453.40	434.93	18.47	24.545		
2,400.00	2,127.91	2,420.24	2,324.30	18.60	11.54	163.16	293.90	-349.06	488.58	468.86	19.72	24.777		



Company: Enduring Resources LLC

Project: Sandoval County, New Mexico NAD83 NM C

North Alamito Unit (102 & 106) Reference Site:

Site Error: 0.00 ft

Reference Well: North Alamito Unit 106 H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Site North Alamito Unit (102 & 106) TVD Reference: RKB=6962+25 @ 6987.00ft MD Reference: RKB=6962+25 @ 6987.00ft

North Reference: Grid

Survey Calculation Method: Minimum Curvature 2.00 sigma Output errors are at DT_Aug2923v16 Database: Offset TVD Reference: Offset Datum

													Offset Site Error:	0.00 f
urvey Progra Refere	ence	MWD Off		Semi M	ajor Axis		Offset Wellb	ore Centre	Dist	Rule Assi ance	_		Offset Well Error:	0.00 f
Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
2,500.00	2,197.20	2,513.69	2,406.37	20.15	12.34	162.54	322.68	-383.24	523.82	502.83	20.99	24.952		
2,600.00	2,266.49	2,607.13	2,488.43	21.71	13.15	162.00	351.46	-417.42	559.10	536.81	22.29	25.083		
2,700.00	2,335.78	2,700.58	2,570.50	23.27	13.98	161.53	380.24	-451.61	594.42	570.82	23.61	25.180		
2,800.00	2,405.07	2,794.03	2,652.57	24.84	14.81	161.10	409.02	-485.79	629.78	604.84	24.94	25.251		
2,900.00	2,474.36	2,887.47	2,734.64	26.41	15.64	160.72	437.81	-519.97	665.16	638.87	26.29	25.301		
3,000.00	2,543.65	2,980.92	2,816.71	27.99	16.48	160.38	466.59	-554.16	700.56	672.91	27.65	25.337		
3,100.00	2,612.94	3,074.36	2,898.78	29.57	17.32	160.07	495.37	-588.34	735.99	706.97	29.02	25.360		
3,200.00	2,682.23	3,167.81	2,980.85	31.15	18.17	159.80	524.15	-622.52	771.43	741.02	30.40	25.374		
3,300.00	2,751.52	3,261.25	3,062.92	32.73	19.02	159.54	552.93	-656.70	806.88	775.09	31.79	25.380		
3,400.00	2,820.81	3,354.70	3,144.99	34.32	19.88	159.31	581.71	-690.89	842.35	809.16	33.19	25.380		
3,500.00	2,890.10	3,448.15	3,227.06	35.91	20.73	159.09	610.49	-725.07	877.83	843.24	34.59	25.376		
3,600.00	2,959.39	3,541.59	3,309.12	37.50	21.59	158.89	639.27	-759.25	913.32	877.32	36.00	25.369		
3,700.00	3,028.68	3,635.04	3,391.19	39.09	22.45	158.71	668.06	-793.43	948.82	911.40	37.42	25.358		
3,800.00	3,097.97	3,728.48	3,473.26	40.68	23.31	158.54	696.84	-827.62	984.32	945.49	38.84	25.346		
3,900.00	3,167.26	3,821.93	3,555.33	42.27	24.17	158.38	725.62	-861.80	1,019.84	979.58	40.26	25.332		
4,000.00	3,236.55	3,915.38	3,637.40	43.86	25.04	158.23	754.40	-895.98	1,055.35	1,013.67	41.69	25.317		
4,100.00	3,305.84	4,008.82	3,719.47	45.46	25.90	158.10	783.18	-930.17	1,090.88	1,047.76	43.12	25.301		
4,200.00	3,375.14	4,102.27	3,801.54	47.05	26.77	157.97	811.96	-964.35	1,126.41	1,081.86	44.55	25.285		
4,300.00	3,444.43	4,195.71	3,883.61	48.65	27.64	157.85	840.74	-998.53	1,161.94	1,115.96	45.98	25.268		
4,400.00	3,513.72	4,289.16	3,965.68	50.25	28.51	157.73	869.52	-1,032.71	1,197.48	1,150.06	47.42	25.251		
4,500.00	3,583.01	4,382.61	4,047.75	51.84	29.38	157.62	898.31	-1,066.90	1,233.03	1,184.16	48.87	25.233		
4,600.00	3,652.30	4,476.05	4,129.81	53.44	30.25	157.52	927.09	-1,101.08	1,268.57	1,218.26	50.31	25.216		
4,700.00	3,721.59	4,569.50	4,211.88	55.04	31.12	157.43	955.87	-1,135.26	1,304.12	1,252.37	51.75	25.198		
4,800.00	3,790.88	4,662.94	4,293.95	56.64	31.99	157.34	984.65	-1,169.45	1,339.68	1,286.47	53.20	25.181		
4,900.00	3,860.17	4,756.39	4,376.02	58.23	32.86	157.25	1,013.43	-1,203.63	1,375.23	1,320.58	54.65	25.163		
5,000.00	3,929.46	4,843.83	4,452.82	59.83	33.68	157.17	1,040.36	-1,235.61	1,410.81	1,354.79	56.02	25.183		
5,100.00	3,998.75	4,875.25	4,480.89	61.43	33.94	157.17	1,049.44	-1,246.40	1,448.76	1,392.20	56.56	25.614		
5,200.00	4,068.04	4,900.00	4,503.52	63.03	34.15	157.21	1,055.88	-1,254.08	1,490.59	1,433.72	56.87	26.209		
5,300.00	4,137.33	4,950.00	4,550.45	64.63	34.50	157.36	1,066.92	-1,267.27	1,536.25	1,478.87	57.38	26.772		
5,400.00	4,206.62	4,950.00	4,550.45	66.23	34.50	157.36	1,066.92	-1,267.27	1,585.04	1,527.92	57.12	27.747		
5,500.00	4,275.91	5,000.00	4,598.70	67.83	34.77	157.62	1,075.27	-1,277.31	1,637.14	1,579.72	57.43	28.508		
5,600.00	4,345.28	5,000.00	4,598.70	69.43	34.77	158.46	1,075.27	-1,277.31	1,692.28	1,635.28	57.00	29.690		
5,700.00	4,421.46	5,050.00	4,647.90	70.82	34.98	166.22	1,080.86	-1,284.11	1,743.18	1,685.98	57.20	30.477		
5,800.00	4,507.05	5,050.00	4,647.90	71.85	34.98	175.88	1,080.86	-1,284.11	1,784.85	1,728.10	56.75	31.449		
5,900.00	4,599.47	5,100.00	4,697.69	72.54	35.12	-168.22	1,083.64	-1,287.62	1,816.10	1,759.15	56.96	31.886		
6,000.00	4,695.91	5,119.45	4,717.12	72.90	35.15	-136.36	1,083.96	-1,288.09	1,836.75	1,779.96	56.79	32.342		
6,100.00	4,793.42	5,150.00	4,747.67	73.00	35.21	-93.21	1,083.59	-1,287.81	1,846.43	1,789.59	56.83	32.489		
6,200.00	4,889.06	5,174.59	4,772.21	72.96	35.23	-68.17	1,083.59	-1,286.69	1,844.93	1,788.00	56.93	32.410		
6,300.00	4,979.90	5,200.00	4,797.47	72.85	35.25	-57.41	1,082.33	-1,284.69	1,832.38	1,775.15	57.23	32.018		
6,400.00	5,063.21	5,228.28	4,825.42	72.75	35.26	-53.00	1,000.72	-1,281.47	1,809.05	1,775.13	57.84	31.277		
6,500.00	5,136.43	5,250.00	4,846.72	72.72	35.26	-51.84	1,075.05	-1,278.28	1,775.47	1,716.72	58.75	30.218		
6,600.00	5,197.36	5,277.95	4,873.86	72.78	35.25	-53.08	1,070.67	-1,273.28	1,732.34	1,672.19	60.16	28.797		
6,700.00	5,247.85	5,300.00	4,895.03	72.76	35.25	-54.63	1,066.61	-1,268.62	1,683.52	1,621.60	61.93	27.186		
6,800.00	5,288.25	5,323.69	4,917.49	73.20	35.23	-60.20	1,061.67	-1,262.94	1,632.60	1,568.40	64.20	25.429		
6,900.00	5,200.23	5,350.00	4,942.04	73.53	35.23	-66.87	1,055.48	-1,255.80	1,577.97	1,510.80	67.16	23.429		
7,000.00	5,318.96	5,350.00	4,942.04	73.91	35.21	-72.71	1,055.48	-1,255.80	1,521.42	1,450.73	70.69	21.522		
7,100.00	5,318.57	5,375.70	4,965.58	74.33	35.19	-73.75	1,048.73	-1,248.00	1,466.89	1,392.21	74.68	19.643		
7,100.00	5,318.19	5,400.00	4,987.39	74.83	35.19	-73.75 -74.71	1,046.73	-1,246.00	1,416.95	1,338.07	78.88	17.964		
	5,316.19	5,414.34	5,000.05	75.38	35.17	-74.71 -75.28	1,041.74	-1,239.90	1,371.79	1,288.52		16.473		
7,300.00							1,037.32				83.28 87.70			
7,400.00 7,500.00	5,317.41 5,317.02	5,450.00 5,465.67	5,030.74 5,043.86	76.00 76.69	35.12 35.10	-76.66 -77.25	1,025.49	-1,221.04 -1,214.55	1,331.97 1,297.41	1,244.27 1,205.17	87.70 92.24	15.188 14.065		



Company: Enduring Resources LLC

Project: Sandoval County, New Mexico NAD83 NM C

Reference Site: North Alamito Unit (102 & 106)

Site Error: 0.00 ft

Reference Well: North Alamito Unit 106 H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Site North Alamito Unit (102 & 106)

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: DT_Aug2923v16
Offset TVD Reference: Offset Datum

Part	Offset De	sign: No	rth Alamito	Unit (102	& 106) - N	orth Alam	ito Unit 102 I	H - Original Ho	ole - rev0					Offset Site Error:	0.00 ft
	Survey Progr	ram: 0-l	MWD								Rule Assi	igned:		Offset Well Error:	0.00 ft
Pose	Refe	rence					Higheide	Offset Wellb	ore Centre		tance		Congration		
					Reference	Oliset								wanning	
March Marc															
1.00000 0.3194.6 0.00000 0.74000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000000															
1,000															
8.300.00															
1.0 1.0	8,200.00	5,314.31	5,857.13	5,281.75	83.15	35.16	-88.45	822.00	-983.54	1,200.67	1,085.43	115.24	10.419		
MACHINE MACH	8,300.00	5,313.92	5,948.93	5,310.60	84.30	35.40	-89.84	765.42	-917.40	1,200.16	1,083.04	117.11	10.248		
8,0000 8,37131 8,1494 8,2862 8878 38.8 49.66 858.90 7.6699 8,20023 1,0794 10.73 12.77 17.77 18.7000 5,312.37 6,348.49 5,352.78 89.38 37.66 40.64 505.89 -814.01 1,200.22 1,075.25 124.98 9.604 8.6000 5,311.38 6,444 5,252.52 80.78 38.58 -40.64 44.089 -58.02 1,200.22 1,075.25 124.98 9.604 4.60000 5,311.38 6,444 5,252.52 80.78 38.58 -40.64 44.089 -58.02 1,200.22 1,075.25 124.98 9.604 4.60000 5,311.38 6,444 5,252.52 80.78 4.624 4.60000 4.60000 5,311.38 6.60000 5,311.38 6.60000 5,311.38 6.60000 4.600000 4.600000 5,311.38 6.600000 5,311.38 6.600000 5,311.38 6.600000 5,311.38 6.600000 5,311.38 6.6000000 5,311.38 6.6000000 5,311.38 6.6000000 5,311.38 6.6000000 5,311.38 6.6000000 5,311.38 6.6000000 5,311.38 6.60000000 5,311.38 6.60000000 5,311.38 6.60000000 5,311.38 6.60000000 5,311.38 6.60000000 5,311.38 6.60000000 5,311.38 6.600000000 5,300.88 7,444.69 5,322.58 99.88 44.13 4.6000000000000000000000000000000000000	8,315.02	5,313.86	5,963.50	5,313.88	84.48	35.45	-90.00	756.19	-906.61	1,200.15	1,082.77	117.38	10.224		
	8,400.00	5,313.53	6,048.59	5,325.76	85.50	35.77	-90.58	701.46	-842.64	1,200.21	1,081.34	118.87	10.097		
8,700.00	8,500.00	5,313.15	6,149.49	5,326.71	86.75	36.28	-90.65	635.90	-765.99	1,200.23	1,079.49	120.73	9.941		
8,800,00 531189 6,4444 5,353.22 90.70 88.55 40.64 44.08 5-38.02 120.02 1072.87 127.38 9.424 9,000.00 5,311.21 6,844.94 5,353.48 93.55 40.69 90.63 318.68 43.02 120.02 10.676.44 135.24 8.64 9,000.00 5,314.31 6,844.94 5,323.32 80.70 43.24 40.62 180.87 -254.07 120.02 10.618.68 183.84 8.675 9,000.00 5,304.43 6,844.99 6,322.99 68.27 44.64 40.62 116.67 118.68 1,200.22 10.618.60 141.42 6.67 9,000.00 5,306.27 7,404.44 40.62 116.57 118.68 1,200.22 10.618.60 141.42 6.667 9,000.00 5,306.27 7,444.94 5,322.03 10.88 40.161 116.14 41.01 1,200.22 10.68.80 141.42 6.467 9,000.00 5,306.27 7,444.94 3,321.33	8,600.00	5,312.76	6,249.49	5,326.25	88.04	36.90	-90.64	570.89	-690.00	1,200.23	1,077.46	122.77	9.777		
Bandon	8,700.00	5,312.37	6,349.49	5,325.78	89.38	37.66	-90.64	505.89	-614.01	1,200.22	1,075.25	124.98	9.604		
	8,800.00	5,311.98	6,449.49	5,325.32	90.76	38.55	-90.64	440.88	-538.02	1,200.22	1,072.87	127.36	9.424		
1,000 1,00	8,900.00	5,311.60	6,549.49	5,324.85	92.19	39.57	-90.63	375.88	-462.03	1,200.22	1,070.33	129.90	9.240		
9.00.00					93.65						1,067.64	132.58			
9,300.00 6,310.04 6,984.96 5,322.99 98,27 44,64 40,02 115,67 -158,08 1,200.22 10,568.83 141,42 8,467 9,500.00 6,308.27 7,149.49 6,322.63 101,52 47,68 -90.61 -14,44 -8,10 1,200.22 1,058.83 144.78 8,117 9,600.00 5,308.88 7,249.49 5,321.60 103.19 49,30 -90.61 -14.44 -8,10 1,200.21 1,058.83 144.78 8,117 9,600.00 5,308.89 7,249.49 5,321.60 103.19 49,00 -14.44 4,610 1,200.21 1,048.55 156.66 7,760 9,600.00 5,308.11 7,449.49 5,302.07 106.61 5,271 -90.00 -209.15 221.87 1,002.21 1,048.55 156.66 7,760 10,000.00 5,307.33 7,849.49 5,319.74 110.13 56.31 -90.59 -30.81 373.85 1,200.21 1,034.79 185.42 7,256 10	9,100.00	5,310.82	6,749.49	5,323.92	95.16	41.92	-90.63	245.87	-310.06	1,200.22	1,064.81	135.41	8.864		
9,300.00 6,310.04 6,984.96 5,322.99 98,27 44,64 40,02 115,67 -158,08 1,200.22 10,568.83 141,42 8,467 9,500.00 6,308.27 7,149.49 6,322.63 101,52 47,68 -90.61 -14,44 -8,10 1,200.22 1,058.83 144.78 8,117 9,600.00 5,308.88 7,249.49 5,321.60 103.19 49,30 -90.61 -14.44 -8,10 1,200.21 1,058.83 144.78 8,117 9,600.00 5,308.89 7,249.49 5,321.60 103.19 49,00 -14.44 4,610 1,200.21 1,048.55 156.66 7,760 9,600.00 5,308.11 7,449.49 5,302.07 106.61 5,271 -90.00 -209.15 221.87 1,002.21 1,048.55 156.66 7,760 10,000.00 5,307.33 7,849.49 5,319.74 110.13 56.31 -90.59 -30.81 373.85 1,200.21 1,034.79 185.42 7,256 10	9,200.00	5,310.43	6,849.49	5,323.46	96.70	43.24	-90.62	180.87	-234.07	1,200.22	1,061.86	138.36	8.675		
0.400.00 0.308.66 7.749.49 5.322.53 99.88 46.13 99.01 50.08 -12.09 1.200.22 1.056.53 144.59 8.301 145.60 8.117 145.00 8.302.00 1.030.39 103.19 149.30 -90.61 -14.14 6.810 1.200.21 1.048.99 151.22 7.937 1.000.00 1.000.0															
9,500.00 5,309.27 7,149.49 5,322.60 101.52 47.88 -90.61 14.14 4-10 1,200.22 1,025.25 147.88 8.117 9,700.00 5,308.48 7,249.49 5,321.60 103.19 49.30 -90.61 17.91.14 48.88 1,200.21 1,048.59 15.46 7.760 9,800.00 5,308.11 7,449.49 5,320.67 106.61 52.71 9.90.00 1.00.77 7,549.49 5,320.67 106.61 52.71 9.90.00 1.00.77 7,549.49 5,320.20 108.36 54.49 -90.60 -20.915 221.87 1,200.21 1,044.55 15.86 7.88 19.00.00 1.00.77 7,549.49 5,319.27 111.93 86.17 -90.59 -339.16 373.85 1,200.21 1,034.79 165.42 7.256 1,040.00 1,030.84 7,749.49 5,318.31 110.33 88.17 -90.59 -339.16 373.85 1,200.21 1,031.08 165.42 7.256 1,040.00 1,030.84 1,749.49 5,				5,322.53											
1,000 1,00															
8,800,00 5,308,11 7,449,49 5,320,67 106,81 52,71 90,80 -208,15 221,87 1,200,21 1,042,03 188,18 7,588 9,900,00 5,307,33 7,649,49 5,319,74 110,13 56,31 -90.59 -339,16 373,85 1,200,21 1,034,79 165,42 7,256 10,000,00 5,306,54 7,749,49 5,319,27 1113,35 80,17 -90,59 -404,16 448,83 1,200,21 1,034,79 165,42 7,256 10,200,00 5,306,57 7,949,49 5,318,81 113,75 80,96 -90,58 -534,17 601,81 1,027,32 172,89 6,942 10,400,00 5,305,78 8,049,49 5,317,87 117,45 69,95 -90,58 -599,17 677,80 1,200,21 1,027,32 172,89 6,942 10,500,00 5,305,70 8,049,49 5,316,41 121,32 69,93 +90,57 -72,81 820,78 1,200,20 1,071,19 184,1 6,370															
8,800,00 5,308,11 7,449,49 5,320,67 106,81 52,71 90,80 -208,15 221,87 1,200,21 1,042,03 188,18 7,588 9,900,00 5,307,33 7,649,49 5,319,74 110,13 56,31 -90.59 -339,16 373,85 1,200,21 1,034,79 165,42 7,256 10,000,00 5,306,54 7,749,49 5,319,27 1113,35 80,17 -90,59 -404,16 448,83 1,200,21 1,034,79 165,42 7,256 10,200,00 5,306,57 7,949,49 5,318,81 113,75 80,96 -90,58 -534,17 601,81 1,027,32 172,89 6,942 10,400,00 5,305,78 8,049,49 5,317,87 117,45 69,95 -90,58 -599,17 677,80 1,200,21 1,027,32 172,89 6,942 10,500,00 5,305,70 8,049,49 5,316,41 121,32 69,93 +90,57 -72,81 820,78 1,200,20 1,071,19 184,1 6,370	9,700.00	5,308.49	7,349.49	5,321.13	104.88	50.98	-90.60	-144.15	145.88	1,200.21	1,045.55	154.66	7.760		
9,900 0 5,307.72 7,549.49 6,320.20 108.58 54.49 90.69 -374.15 297.86 1,200.21 1,038.14 161.77 7,419															
10,100,00		5,307.72	7,549.49	5,320.20	108.36	54.49	-90.60	-274.15	297.86	1,200.21	1,038.44	161.77	7.419		
10,100,00			7,649.49												
10.300.00 5.306.17 7,949.49 5.318.34 115.59 61.99 -90.58 -594.17 601.81 1,200.21 1,020.25 176.71 6.792 10.600.00 5.305.78 8.0494.99 5.317.41 119.33 69.93 -90.57 -664.17 753.79 1,200.20 1,011.64 180.57 6.664 10.600.00 5.305.39 8,149.49 5.316.94 121.23 67.93 -90.57 -794.18 829.78 1,200.20 1,011.79 188.41 6.370 10,700.00 5.304.23 8.449.49 5.316.48 123.14 69.96 -90.57 -794.18 895.77 1,200.20 1,007.81 192.39 6.238 10,900.00 5.304.23 8.449.49 5.316.01 125.07 7.201 -90.56 -859.18 991.75 1,200.20 1,007.81 192.39 6.238 11,000.00 5.303.46 8.649.49 5.315.65 127.02 7.08 -90.56 -889.19 1,133.74 1,200.20 997.55 204.53 5.868 </td <td></td> <td>5,306.94</td> <td>7,749.49</td> <td></td> <td>111.93</td> <td>58.17</td> <td></td> <td></td> <td>449.83</td> <td>1,200.21</td> <td>1,031.08</td> <td>169.13</td> <td>7.096</td> <td></td> <td></td>		5,306.94	7,749.49		111.93	58.17			449.83	1,200.21	1,031.08	169.13	7.096		
10,40,00 5,305,78 8,049,49 5,317,87 117,45 63,95 -90,58 -90,57 -664,17 753,79 1,200,20 1,015,74 184,47 6,506 10,000,00 5,305,00 8,249,49 5,316,94 121,23 67,93 -90,57 -729,18 829,78 1,200,20 1,017,97 188,41 6,370 10,700,00 5,304,62 8,349,49 5,316,48 123,14 69,96 -90,57 -794,18 905,77 1,200,20 1,007,81 192,39 6,238 10,800,00 5,304,23 8,449,49 5,316,01 125,07 72,01 -90,56 -859,18 981,76 1,200,20 1,003,79 166,41 61,11 10,900,00 5,303,34 8,549,49 5,315,08 128,98 76,16 -90,56 -94,91 1,057,75 1,200,20 999,75 200,45 5,987 11,000,00 5,303,45 8,649,49 5,316,08 128,98 76,16 -90,56 -94,91 1,057,75 1,200,20 999,75 200,45 5,987 11,000,00 5,303,68 8,749,49 5,314,62 130,95 78,27 -90,55 -1,054,20 1,297,22 1,200,20 991,56 208,64 5,753 11,200,00 5,302,68 8,849,49 5,314,62 130,95 78,27 -90,55 -1,054,20 1,201,20 991,56 208,64 5,753 11,400,00 5,301,51 9,149,49 5,313,69 134,94 82,51 -90,54 -1,184,20 1,381,70 1,200,20 997,48 225,30 5,327 11,600,00 5,301,51 9,149,49 5,312,22 136,96 84,65 -90,54 -1,184,20 1,437,69 1,200,20 997,48 225,30 5,327 11,600,00 5,301,51 9,149,49 5,312,22 141,02 88,66 -90,53 -1,379,21 1,589,67 1,200,19 974,89 225,30 5,327 1,600,00 5,300,35 9,449,49 5,311,36 145,12 93,32 -90,53 -1,379,21 1,589,67 1,200,19 974,89 225,30 5,327 1,400,00 5,300,35 9,449,49 5,311,36 145,12 93,32 -90,53 -1,500,22 1,741,65 1,200,19 976,87 229,52 5,229 1,100,00 5,299,89 9,649,49 5,313,60 145,12 93,32 -90,53 -1,500,22 1,741,65 1,200,19 997,87 229,52 5,229 1,100,00 1,000,00	10,200.00	5,306.55	7,849.49	5,318.81	113.75	60.06	-90.58	-469.16	525.82	1,200.21	1,027.32	172.89	6.942		
10,500,00 5,305,39 8,149,49 5,317,41 119,33 65,93 -90,57 -729,18 829,78 1,200,20 1,015,74 184,47 6,506 10,500,00 5,305,00 8,249,48 5,316,94 121,23 67,93 -90,57 -794,18 829,78 1,200,20 1,007,11 192,39 6,238 10,700,00 5,304,62 8,349,49 5,316,601 125,07 72,01 -90,56 -859,18 981,76 1,200,20 1,003,79 196,41 6,111 10,900,00 5,303,48 8,549,49 5,315,68 128,98 76,16 -90,56 -984,19 1,057,75 1,200,20 999,75 204,55 5,987 11,000,00 5,303,46 8,494,99 5,314,62 130,95 78,27 -90,55 -1,054,20 1,299,72 1,200,20 991,56 204,53 5,888 11,200,00 5,302,80 8,849,49 5,314,15 132,94 80,38 -90,55 -1,119,20 1,285,71 1,200,20 997,43 212,77 5,	10,300.00	5,306.17	7,949.49	5,318.34	115.59	61.99	-90.58	-534.17	601.81	1,200.21	1,023.50	176.71	6.792		
10,600,00 5,305,00 8,249,49 5,316,94 121,23 67,93 -90,57 -729,18 829,78 1,200,20 1,011,79 188,41 6,370 10,700,00 5,304,62 8,349,49 5,316,68 123,14 69,96 -90,57 -794,18 905,77 1,200,20 1,007,81 192,39 6,238 10,800,00 5,304,23 8,449,49 5,315,55 127,02 74,08 -90,56 -894,19 1,057,75 1,200,20 1,003,79 196,41 6,111 10,000,00 5,303,46 8,649,49 5,315,08 129,88 76,16 -90,56 -989,19 1,133,74 1,200,20 999,56 204,53 5,868 11,100,00 5,303,68 8,849,49 5,314,62 130,95 78,27 -90,55 -1,054,20 1,285,71 1,200,20 991,56 208,64 5,753 11,200,00 5,302,28 8,849,49 5,314,15 132,94 80,38 -90,55 -1,119,20 1,285,71 1,200,20 987,43 212,77 5	10,400.00	5,305.78	8,049.49	5,317.87	117.45	63.95	-90.58	-599.17	677.80	1,200.21	1,019.64	180.57	6.647		
10,700.00	10,500.00	5,305.39	8,149.49	5,317.41	119.33	65.93	-90.57	-664.17	753.79	1,200.20	1,015.74	184.47	6.506		
10,800.00 5,304.23 8,449,49 5,316.01 125.07 72.01 -90.56 -859.18 981.76 1,200.20 1,003.79 196.41 6,111 10,000.00 5,303.84 8,549.49 5,315.55 127.02 74.08 -90.56 -90.56 -90.419 1,057.75 1,200.20 999.75 200.45 5,987 11,000.00 5,303.45 8,649.49 5,315.08 128.98 76.16 -90.56 -90.55 -1.054.20 1,200.72 1,200.20 995.67 204.53 5,868 11,000.00 5,303.66 8,749.49 5,314.62 130.95 78.27 -90.55 -1.054.20 1,209.72 1,200.20 995.67 204.53 5,868 11,200.00 5,303.66 8,749.49 5,313.69 134.94 80.38 -90.55 -1.054.20 1,209.72 1,200.20 991.56 208.64 5,753 11,200.00 5,302.69 8,949.49 5,313.69 134.94 80.35 -90.55 -1.054.20 1,209.72 1,200.20 993.27 216.92 5,533 11,400.00 5,301.00 9,049.49 5,313.22 136.96 84.65 -90.54 -1,184.20 1,361.70 1,200.20 983.27 216.92 5,533 11,400.00 5,301.51 9,149.49 5,312.76 138.98 86.80 -90.54 -1,314.21 1,437.69 1,200.20 997.49 225.30 5,327 1,600.00 5,301.51 9,149.49 5,312.29 141.02 88.96 90.53 -1,379.21 1,513.68 1,200.19 974.89 225.30 5,327 1,600.00 5,301.51 9,149.49 5,312.29 141.02 88.96 90.53 -1,379.21 1,513.68 1,200.19 974.89 225.30 5,327 1,600.00 5,301.51 9,449.49 5,311.36 145.12 93.32 -90.53 -1,379.21 1,589.67 1,200.19 976.67 229.52 5,229 1,1400.00 5,209.98 9,449.49 5,310.90 147.19 95.51 -90.52 -1,574.22 1,817.64 1,200.19 966.43 233.76 5,134 1,1200.00 5,299.98 9,494.99 5,310.43 149.26 97.71 -90.52 -1,574.22 1,817.64 1,200.19 953.60 246.58 4,867 1,200.00 5,299.88 9,494.99 5,300.35 9,494.99 5,300.35 99.97 151.35 99.91 -90.51 -1,774.22 1,817.64 1,200.19 949.30 250.89 4,784 1,474 1,200.00 5,299.80 9,849.49 5,300.30 155.64 104.34 99.05 1-1,840.24 1,969.61 1,200.19 940.90 944.97 255.21 4,703 1,200.00 5,299.80 9,849.49 5,300.50 153.44 102.12 -90.51 -1,774.22 1,817.64 1,200.19 940.90 240.29 4,953 1,200.00 5,299.80 9,849.49 5,300.50 153.44 102.12 -90.51 -1,769.23 2,045.60 1,200.19 940.90 240.29 4,953 1,200.00 5,299.80 9,849.49 5,300.50 153.44 102.12 -90.51 -1,769.23 2,045.60 1,200.19 940.90 240.29 4,953 1,200.00 5,299.80 9,849.49 5,300.50 153.44 102.12 -90.51 -1,769.23 2,045.60 1,200.19 940.90 250.89 4,474 1,440.20 1	10,600.00	5,305.00	8,249.49	5,316.94	121.23	67.93	-90.57	-729.18	829.78	1,200.20	1,011.79	188.41	6.370		
10,900.00 5,303.84 8,549.49 5,315.55 127.02 74.08 -90.56 -924.19 1,057.75 1,200.20 999.75 200.45 5,987 11,000.00 5,303.45 8,649.49 5,314.62 130.95 78.27 -90.55 -1,054.20 1,209.72 1,200.20 991.56 208.64 5,753 11,200.00 5,303.68 8,849.49 5,314.15 132.94 80.38 -90.55 -1,119.20 1,285.71 1,200.20 991.56 208.64 5,753 11,200.00 5,302.29 8,949.49 5,314.15 132.94 80.38 -90.55 -1,119.20 1,285.71 1,200.20 987.43 212.77 5.641 11,300.00 5,301.90 9,049.49 5,313.69 84.65 -90.54 -1,314.20 1,361.70 1,200.20 979.10 221.10 5.428 11,500.00 5,301.51 9,149.49 5,312.29 141.02 88.96 -90.53 -1,379.21 1,589.67 1,200.19 976.67 229.52 5.229	10,700.00	5,304.62	8,349.49	5,316.48	123.14	69.96	-90.57	-794.18	905.77	1,200.20	1,007.81	192.39	6.238		
11,000.00 5,303.45 8,649.49 5,315.08 128.98 76.16 -90.56 -989.19 1,133.74 1,200.20 995.67 204.53 5.868 11,100.00 5,303.06 8,749.49 5,314.62 130.95 78.27 -90.55 -1,054.20 1,209.72 1,200.20 991.56 208.64 5,753 11,200.00 5,302.68 8,849.49 5,313.69 134.94 80.38 -90.55 -1,119.20 1,285.71 1,200.20 987.43 212.77 5.641 11,300.00 5,302.28 8,949.49 5,313.22 136.96 84.65 -90.54 -1,184.20 1,361.70 1,200.20 987.43 212.77 5.641 11,500.00 5,301.51 9,149.49 5,313.22 136.96 84.65 -90.54 -1,344.21 1,613.68 1,200.19 974.89 225.30 5.327 11,600.00 5,301.13 9,249.49 5,312.29 141.02 88.96 -90.53 -1,379.21 1,589.67 1,200.19 966.43 233.76 <	10,800.00	5,304.23	8,449.49	5,316.01	125.07	72.01	-90.56	-859.18	981.76	1,200.20	1,003.79	196.41	6.111		
11,100.00 5,303.06 8,749.49 5,314.62 130.95 78.27 -90.55 -1,054.20 1,209.72 1,200.20 991.56 208.64 5.753 11,200.00 5,302.68 8,849.49 5,314.15 132.94 80.38 -90.55 -1,119.20 1,285.71 1,200.20 987.43 212.77 5.641 11,300.00 5,302.29 8,949.49 5,313.69 134.94 82.51 -90.54 -1,184.20 1,361.70 1,200.20 983.27 216.92 5.533 11,500.00 5,301.51 9,149.49 5,313.22 136.96 84.65 -90.54 -1,249.21 1,437.69 1,200.20 979.10 221.10 5.428 11,500.00 5,301.51 9,149.49 5,312.29 141.02 88.96 -90.53 -1,379.21 1,589.67 1,200.19 976.67 229.52 5.229 11,700.00 5,300.74 9,349.49 5,311.36 145.12 93.32 -90.53 -1,509.22 1,741.65 1,200.19 966.43 233.76	10,900.00	5,303.84	8,549.49	5,315.55	127.02	74.08	-90.56	-924.19	1,057.75	1,200.20	999.75	200.45	5.987		
11,100.00 5,303.06 8,749.49 5,314.62 130.95 78.27 -90.55 -1,054.20 1,209.72 1,200.20 991.56 208.64 5.753 11,200.00 5,302.68 8,849.49 5,314.15 132.94 80.38 -90.55 -1,119.20 1,285.71 1,200.20 987.43 212.77 5.641 11,300.00 5,302.29 8,949.49 5,313.69 134.94 82.51 -90.54 -1,184.20 1,361.70 1,200.20 983.27 216.92 5.533 11,500.00 5,301.51 9,149.49 5,313.22 136.96 84.65 -90.54 -1,249.21 1,437.69 1,200.20 979.10 221.10 5.428 11,500.00 5,301.51 9,149.49 5,312.29 141.02 88.96 -90.53 -1,379.21 1,589.67 1,200.19 976.67 229.52 5.229 11,700.00 5,300.74 9,349.49 5,311.36 145.12 93.32 -90.53 -1,509.22 1,741.65 1,200.19 966.43 233.76		5,303.45	8,649.49		128.98	76.16	-90.56	-989.19	1,133.74	1,200.20	995.67	204.53	5.868		
11,300.00 5,302.29 8,949.49 5,313.69 134.94 82.51 -90.54 -1,184.20 1,361.70 1,200.20 983.27 216.92 5.533 11,400.00 5,301.90 9,049.49 5,313.22 136.96 84.65 -90.54 -1,249.21 1,437.69 1,200.20 979.10 221.10 5.428 11,500.00 5,301.51 9,149.49 5,312.76 138.98 86.80 -90.54 -1,314.21 1,513.68 1,200.19 974.89 225.30 5.327 11,600.00 5,301.13 9,249.49 5,312.29 141.02 88.96 -90.53 -1,379.21 1,589.67 1,200.19 970.67 229.52 5.229 11,700.00 5,300.74 9,349.49 5,311.36 145.12 93.32 -90.53 -1,544.22 1,665.66 1,200.19 966.43 233.76 5.134 11,800.00 5,299.96 9,549.49 5,310.90 147.19 95.51 -90.52 -1,574.22 1,817.64 1,200.19 957.90 242.29		5,303.06	8,749.49		130.95	78.27		-1,054.20	1,209.72	1,200.20		208.64	5.753		
11,300.00 5,302.29 8,949.49 5,313.69 134.94 82.51 -90.54 -1,184.20 1,361.70 1,200.20 983.27 216.92 5.533 11,400.00 5,301.90 9,049.49 5,313.22 136.96 84.65 -90.54 -1,249.21 1,437.69 1,200.20 979.10 221.10 5.428 11,500.00 5,301.51 9,149.49 5,312.76 138.98 86.80 -90.54 -1,314.21 1,513.68 1,200.19 974.89 225.30 5.327 11,600.00 5,301.13 9,249.49 5,312.29 141.02 88.96 -90.53 -1,379.21 1,589.67 1,200.19 970.67 229.52 5.229 11,700.00 5,300.74 9,349.49 5,311.36 145.12 93.32 -90.53 -1,544.22 1,665.66 1,200.19 966.43 233.76 5.134 11,800.00 5,299.96 9,549.49 5,310.90 147.19 95.51 -90.52 -1,574.22 1,817.64 1,200.19 957.90 242.29	11,200.00	5,302.68	8,849.49	5,314.15	132.94	80.38	-90.55	-1,119.20	1,285.71	1,200.20	987.43	212.77	5.641		
11,500.00 5,301.51 9,149.49 5,312.76 138.98 86.80 -90.54 -1,314.21 1,513.68 1,200.19 974.89 225.30 5.327 11,600.00 5,301.13 9,249.49 5,312.29 141.02 88.96 -90.53 -1,379.21 1,589.67 1,200.19 970.67 229.52 5.229 11,700.00 5,300.74 9,349.49 5,311.83 143.07 91.14 -90.53 -1,444.22 1,665.66 1,200.19 966.43 233.76 5.134 11,800.00 5,300.35 9,449.49 5,311.36 145.12 93.32 -90.53 -1,509.22 1,741.65 1,200.19 962.17 238.02 5.042 11,900.00 5,299.69 9,549.49 5,310.90 147.19 95.51 -90.52 -1,574.22 1,817.64 1,200.19 957.90 242.29 4.953 12,000.00 5,299.58 9,649.49 5,310.43 149.26 97.71 -90.52 -1,639.23 1,893.62 1,200.19 953.60 246.58 4.867 12,100.00 5,299.19 9,749.49 5,309.97 151.35 99.91 -90.51 -1,704.23 1,969.61 1,200.19 949.30 250.89 4.784 12,200.00 5,298.80 9,849.49 5,309.50 153.44 102.12 -90.51 -1,769.23 2,045.60 1,200.19 944.97 255.21 4.703 12,300.00 5,298.01 9,949.49 5,309.03 155.54 104.34 -90.51 -1,834.24 2,121.59 1,200.19 940.64 259.55 4.624 12,400.00 5,298.02 10,049.49 5,308.57 157.65 106.57 -90.50 -1,899.24 2,197.58 1,200.19 936.29 263.89 4.548 12,500.00 5,297.64 10,149.49 5,308.10 159.77 108.80 -90.50 -1,964.24 2,273.57 1,200.18 931.93 268.25 4.474 12,600.00 5,297.25 10,249.49 5,307.64 161.89 111.03 -90.50 -2,029.25 2,349.56 1,200.18 927.56 272.63 4.402		5,302.29	8,949.49	5,313.69	134.94	82.51	-90.54	-1,184.20	1,361.70	1,200.20	983.27	216.92	5.533		
11,600.00 5,301.13 9,249.49 5,312.29 141.02 88.96 -90.53 -1,379.21 1,589.67 1,200.19 970.67 229.52 5,229 11,700.00 5,300.74 9,349.49 5,311.83 143.07 91.14 -90.53 -1,444.22 1,665.66 1,200.19 966.43 233.76 5,134 11,800.00 5,300.35 9,449.49 5,311.36 145.12 93.32 -90.53 -1,509.22 1,741.65 1,200.19 962.17 238.02 5.042 11,900.00 5,299.96 9,549.49 5,310.90 147.19 95.51 -90.52 -1,574.22 1,817.64 1,200.19 962.17 238.02 5.042 12,000.00 5,299.58 9,649.49 5,310.43 149.26 97.71 -90.52 -1,639.23 1,893.62 1,200.19 953.60 246.58 4.867 12,100.00 5,299.80 9,749.49 5,309.97 151.35 99.91 -90.51 -1,704.23 1,969.61 1,200.19 949.30 255.21 4.703 12,300.00 5,298.80 9,849.49 5,309.50 153.	11,400.00	5,301.90	9,049.49		136.96	84.65	-90.54	-1,249.21	1,437.69	1,200.20	979.10	221.10	5.428		
11,700.00 5,300.74 9,349.49 5,311.83 143.07 91.14 -90.53 -1,444.22 1,665.66 1,200.19 966.43 233.76 5.134 11,800.00 5,300.35 9,449.49 5,311.36 145.12 93.32 -90.53 -1,509.22 1,741.65 1,200.19 962.17 238.02 5.042 11,900.00 5,299.96 9,549.49 5,310.90 147.19 95.51 -90.52 -1,574.22 1,817.64 1,200.19 957.90 242.29 4,953 12,000.00 5,299.58 9,649.49 5,310.43 149.26 97.71 -90.52 -1,639.23 1,893.62 1,200.19 953.60 246.58 4.867 12,100.00 5,299.19 9,749.49 5,309.97 151.35 99.91 -90.51 -1,704.23 1,969.61 1,200.19 949.30 250.89 4.784 12,200.00 5,298.80 9,849.49 5,309.50 153.44 102.12 -90.51 -1,769.23 2,045.60 1,200.19 944.97 255.21 4.703 12,300.00 5,298.41 9,949.49 5,309.03 155.54 104.34 -90.51 -1,834.24 2,121.59 1,200.19 940.64 259.55 4.624 12,400.00 5,298.02 10,049.49 5,308.57 157.65 106.57 -90.50 -1,899.24 2,197.58 1,200.19 936.29 263.89 4.548 12,500.00 5,297.64 10,149.49 5,308.10 159.77 108.80 -90.50 -1,964.24 2,273.57 1,200.18 931.93 268.25 4.474 12,600.00 5,297.25 10,249.49 5,307.64 161.89 111.03 -90.50 -2,029.25 2,349.56 1,200.18 927.56 272.63 4.402	11,500.00	5,301.51	9,149.49	5,312.76	138.98	86.80	-90.54	-1,314.21	1,513.68	1,200.19	974.89	225.30	5.327		
11,800.00 5,300.35 9,449.49 5,311.36 145.12 93.32 -90.53 -1,509.22 1,741.65 1,200.19 962.17 238.02 5.042 11,900.00 5,299.96 9,549.49 5,310.90 147.19 95.51 -90.52 -1,574.22 1,817.64 1,200.19 957.90 242.29 4.953 12,000.00 5,299.58 9,649.49 5,310.43 149.26 97.71 -90.52 -1,639.23 1,893.62 1,200.19 953.60 246.58 4.867 12,100.00 5,299.19 9,749.49 5,309.97 151.35 99.91 -90.51 -1,704.23 1,969.61 1,200.19 949.30 250.89 4.784 12,200.00 5,298.80 9,849.49 5,309.50 153.44 102.12 -90.51 -1,769.23 2,045.60 1,200.19 944.97 255.21 4.703 12,300.00 5,298.81 9,949.49 5,309.03 155.54 104.34 -90.51 -1,834.24 2,121.59 1,200.19 940.64 259.55 4.624 12,400.00 5,298.02 10,049.49 5,308.57 1	11,600.00	5,301.13	9,249.49	5,312.29	141.02	88.96	-90.53	-1,379.21	1,589.67	1,200.19	970.67	229.52	5.229		
11,900.00 5,299.96 9,549.49 5,310.90 147.19 95.51 -90.52 -1,574.22 1,817.64 1,200.19 957.90 242.29 4,953 12,000.00 5,299.58 9,649.49 5,310.43 149.26 97.71 -90.52 -1,639.23 1,893.62 1,200.19 953.60 246.58 4.867 12,100.00 5,299.19 9,749.49 5,309.97 151.35 99.91 -90.51 -1,704.23 1,969.61 1,200.19 949.30 250.89 4.784 12,200.00 5,298.80 9,849.49 5,309.50 153.44 102.12 -90.51 -1,769.23 2,045.60 1,200.19 944.97 255.21 4.703 12,300.00 5,298.41 9,949.49 5,309.03 155.54 104.34 -90.51 -1,834.24 2,121.59 1,200.19 940.64 259.55 4.624 12,400.00 5,298.02 10,049.49 5,308.57 157.65 106.57 -90.50 -1,899.24 2,197.58 1,200.19 936.29 263.89 4.548 12,500.00 5,297.64 10,149.49 5,308.10 159.77 108.80 -90.50 -1,964.24 2,273.57 1,200.18 931.93 268.25 4.474 12,600.00 5,297.25 10,249.49 5,307.64 161.89 111.03 -90.50 -2,029.25 2,349.56 1,200.18 927.56 272.63 4.402	11,700.00	5,300.74	9,349.49	5,311.83	143.07	91.14	-90.53	-1,444.22	1,665.66	1,200.19	966.43	233.76	5.134		
11,900.00 5,299.96 9,549.49 5,310.90 147.19 95.51 -90.52 -1,574.22 1,817.64 1,200.19 957.90 242.29 4,953 12,000.00 5,299.58 9,649.49 5,310.43 149.26 97.71 -90.52 -1,639.23 1,893.62 1,200.19 953.60 246.58 4,867 12,100.00 5,299.19 9,749.49 5,309.97 151.35 99.91 -90.51 -1,704.23 1,969.61 1,200.19 949.30 250.89 4.784 12,200.00 5,298.80 9,849.49 5,309.50 153.44 102.12 -90.51 -1,769.23 2,045.60 1,200.19 944.97 255.21 4.703 12,300.00 5,298.81 9,949.49 5,309.03 155.54 104.34 -90.51 -1,834.24 2,121.59 1,200.19 940.64 259.55 4.624 12,400.00 5,298.02 10,049.49 5,308.57 157.65 106.57 -90.50 -1,899.24 2,197.58 1,200.19 940.64 259.55	11,800.00	5,300.35	9,449.49	5,311.36	145.12	93.32	-90.53	-1,509.22	1,741.65	1,200.19	962.17	238.02	5.042		
12,000.00 5,299.58 9,649.49 5,310.43 149.26 97.71 -90.52 -1,639.23 1,893.62 1,200.19 953.60 246.58 4.867 12,100.00 5,299.19 9,749.49 5,309.97 151.35 99.91 -90.51 -1,704.23 1,969.61 1,200.19 949.30 250.89 4.784 12,200.00 5,298.80 9,849.49 5,309.50 153.44 102.12 -90.51 -1,769.23 2,045.60 1,200.19 944.97 255.21 4.703 12,300.00 5,298.41 9,949.49 5,309.03 155.54 104.34 -90.51 -1,834.24 2,121.59 1,200.19 940.64 259.55 4.624 12,400.00 5,298.02 10,049.49 5,308.57 157.65 106.57 -90.50 -1,899.24 2,197.58 1,200.19 936.29 263.89 4.548 12,500.00 5,297.64 10,149.49 5,308.10 159.77 108.80 -90.50 -1,964.24 2,273.57 1,200.18 931.93 268.25 4.474 12,600.00 5,297.25 10,249.49 5,307.64 <	11,900.00	5,299.96	9,549.49	5,310.90	147.19	95.51	-90.52		1,817.64	1,200.19	957.90	242.29	4.953		
12,200.00 5,298.80 9,849.49 5,309.50 153.44 102.12 -90.51 -1,769.23 2,045.60 1,200.19 944.97 255.21 4.703 12,300.00 5,298.41 9,949.49 5,309.03 155.54 104.34 -90.51 -1,834.24 2,121.59 1,200.19 940.64 259.55 4.624 12,400.00 5,298.02 10,049.49 5,308.57 157.65 106.57 -90.50 -1,899.24 2,197.58 1,200.19 936.29 263.89 4.548 12,500.00 5,297.64 10,149.49 5,308.10 159.77 108.80 -90.50 -1,964.24 2,273.57 1,200.18 931.93 268.25 4.474 12,600.00 5,297.25 10,249.49 5,307.64 161.89 111.03 -90.50 -2,029.25 2,349.56 1,200.18 927.56 272.63 4.402															
12,300.00 5,298.41 9,949.49 5,309.03 155.54 104.34 -90.51 -1,834.24 2,121.59 1,200.19 940.64 259.55 4,624 12,400.00 5,298.02 10,049.49 5,308.57 157.65 106.57 -90.50 -1,899.24 2,197.58 1,200.19 936.29 263.89 4,548 12,500.00 5,297.64 10,149.49 5,308.10 159.77 108.80 -90.50 -1,964.24 2,273.57 1,200.18 931.93 268.25 4,474 12,600.00 5,297.25 10,249.49 5,307.64 161.89 111.03 -90.50 -2,029.25 2,349.56 1,200.18 927.56 272.63 4,402	12,100.00	5,299.19	9,749.49	5,309.97	151.35	99.91	-90.51	-1,704.23	1,969.61	1,200.19	949.30	250.89	4.784		
12,300.00 5,298.41 9,949.49 5,309.03 155.54 104.34 -90.51 -1,834.24 2,121.59 1,200.19 940.64 259.55 4,624 12,400.00 5,298.02 10,049.49 5,308.57 157.65 106.57 -90.50 -1,899.24 2,197.58 1,200.19 936.29 263.89 4,548 12,500.00 5,297.64 10,149.49 5,308.10 159.77 108.80 -90.50 -1,964.24 2,273.57 1,200.18 931.93 268.25 4,474 12,600.00 5,297.25 10,249.49 5,307.64 161.89 111.03 -90.50 -2,029.25 2,349.56 1,200.18 927.56 272.63 4,402	12,200.00	5,298.80	9,849.49	5,309.50	153.44	102.12	-90.51	-1,769.23	2,045.60	1,200.19	944.97	255.21	4.703		
12,500.00 5,297.64 10,149.49 5,308.10 159.77 108.80 -90.50 -1,964.24 2,273.57 1,200.18 931.93 268.25 4.474 12,600.00 5,297.25 10,249.49 5,307.64 161.89 111.03 -90.50 -2,029.25 2,349.56 1,200.18 927.56 272.63 4.402	12,300.00	5,298.41	9,949.49	5,309.03	155.54	104.34	-90.51	-1,834.24	2,121.59	1,200.19	940.64	259.55	4.624		
12,600.00 5,297.25 10,249.49 5,307.64 161.89 111.03 -90.50 -2,029.25 2,349.56 1,200.18 927.56 272.63 4.402	12,400.00	5,298.02	10,049.49	5,308.57	157.65	106.57	-90.50	-1,899.24	2,197.58	1,200.19	936.29	263.89	4.548		
	12,500.00	5,297.64	10,149.49	5,308.10	159.77	108.80	-90.50	-1,964.24		1,200.18	931.93	268.25	4.474		
12,700.00 5,296.86 10,349.49 5,307.17 164.02 113.28 -90.49 -2,094.25 2,425.55 1,200.18 923.17 277.01 4.333	12,600.00	5,297.25	10,249.49	5,307.64	161.89	111.03	-90.50	-2,029.25	2,349.56	1,200.18	927.56	272.63	4.402		
	12,700.00	5,296.86	10,349.49	5,307.17	164.02	113.28	-90.49	-2,094.25	2,425.55	1,200.18	923.17	277.01	4.333		



Company: Enduring Resources LLC

Project: Sandoval County, New Mexico NAD83 NM C

North Alamito Unit (102 & 106) Reference Site:

Site Error: 0.00 ft

Reference Well: North Alamito Unit 106 H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Site North Alamito Unit (102 & 106) TVD Reference: RKB=6962+25 @ 6987.00ft MD Reference: RKB=6962+25 @ 6987.00ft

North Reference: Grid

Survey Calculation Method: Minimum Curvature 2.00 sigma Output errors are at

Database: DT_Aug2923v16 Offset TVD Reference: Offset Datum

Offset Des	sign: No	orth Alamito	Unit (102	& 106) - N	orth Alam	ito Unit 102 l	H - Original Ho	le - rev0					Offset Site Error:	0.00 ft
Survey Progr		-MWD								Rule Assi	gned:		Offset Well Error:	0.00 ft
Refer Measured	rence Vertical	Off Measured	fset Vertical	Semi I Reference	Major Axis Offset	Highside	Offset Wellb	ore Centre	Dist Between	tance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S (ft)	+E/-W (ft)	Centres	Ellipses	Separation	Factor	9	
(ft) 12,800.00	(ft) 5,296.47	(ft) 10,449.49	(ft) 5,306.71	(ft) 166.16	(ft) 115.52	(°) -90.49	-2,159.25	2,501.54	(ft) 1,200.18	(ft) 918.78	(ft) 281.40	4.265		
12,900.00	5,296.09	10,549.49	5,306.24	168.30	117.77	-90.49	-2,139.23	2,577.53	1,200.18	914.37	285.81	4.203		
13,000.00	5,295.70	10,649.49	5,305.78	170.45	120.03	-90.48	-2,289.26	2,653.51	1,200.18	909.96	290.22	4.135		
13,100.00	5,295.70	10,749.49	5,305.76	170.43	120.03	-90.48	-2,269.26	2,729.50	1,200.18	905.53	294.65	4.133		
13,200.00	5,294.92	10,749.49	5,303.31	174.76	124.55	-90.46	-2,354.20	2,805.49	1,200.18	901.10	299.08	4.073		
13,200.00	5,294.53	10,949.49	5,304.88	174.70	126.81	-90.47	-2,419.27	2,881.48	1,200.18	896.66	303.52	3.954		
13,400.00	5,294.15	11,049.49	5,303.92	179.10	129.08	-90.47	-2,549.27	2,957.47	1,200.18	892.21	307.97	3.897		
13,500.00	5,293.76	11,149.49	5,303.45	181.28	131.36	-90.46	-2,614.28	3,033.46	1,200.17	887.75	312.42	3.842		
13,600.00	5,293.37	11,249.49	5,302.99	183.46	133.63	-90.46	-2,679.28	3,109.45	1,200.17	883.29	316.89	3.787		
13,700.00	5,292.98	11,349.49	5,302.52	185.64	135.91	-90.46	-2,744.29	3,185.44	1,200.17	878.82	321.36	3.735		
13,800.00	5,292.60	11,449.49	5,302.06	187.83	138.19	-90.45	-2,809.29	3,261.43	1,200.17	874.34	325.83	3.683		
13,900.00	5,292.21	11,549.49	5,301.59	190.02	140.48	-90.45	-2,874.29	3,337.42	1,200.17	869.85	330.32	3.633		
14,000.00	5,291.82	11,649.49	5,301.13	192.22	142.76	-90.44	-2,939.30	3,413.40	1,200.17	865.36	334.81	3.585		
14,100.00	5,291.43	11,749.49	5,300.66	194.42	145.05	-90.44	-3,004.30	3,489.39	1,200.17	860.86	339.31	3.537		
14,200.00	5,291.05	11,849.49	5,300.19	196.63	147.34	-90.44	-3,069.30	3,565.38	1,200.17	856.36	343.81	3.491		
14,300.00	5,290.66	11,949.49	5,299.73	198.84	149.64	-90.43	-3,134.31	3,641.37	1,200.17	851.85	348.32	3.446		
14,400.00	5,290.27	12,049.49	5,299.26	201.05	151.93	-90.43	-3,199.31	3,717.36	1,200.17	847.34	352.83	3.402		
14,500.00	5,289.88	12,149.49	5,298.80	203.27	154.23	-90.43	-3,264.31	3,793.35	1,200.17	842.82	357.35	3.359		
14,600.00	5,289.49	12,249.49	5,298.33	205.49	156.53	-90.42	-3,329.32	3,869.34	1,200.16	838.29	361.87	3.317		
14,700.00	5,289.11	12,349.49	5,297.87	207.71	158.83	-90.42	-3,394.32	3,945.33	1,200.16	833.76	366.40	3.276		
14,800.00	5,288.72	12,449.49	5,297.40	209.94	161.13	-90.41	-3,459.32	4,021.32	1,200.16	829.23	370.93	3.236		
14,900.00	5,288.33	12,549.49	5,296.94	212.17	163.44	-90.41	-3,524.33	4,097.31	1,200.16	824.69	375.47	3.196		
15,000.00	5,287.94	12,649.49	5,296.47	214.40	165.74	-90.41	-3,589.33	4,173.29	1,200.16	820.15	380.01	3.158		
15,100.00	5,287.56	12,749.49	5,296.01	216.63	168.05	-90.40	-3,654.33	4,249.28	1,200.16	815.60	384.56	3.121		
15,200.00	5,287.17	12,849.49	5,295.54	218.87	170.36	-90.40	-3,719.34	4,325.27	1,200.16	811.05	389.11	3.084		
15,300.00	5,286.78	12,949.49	5,295.08	221.11	170.50	-90.40	-3,784.34	4,401.26	1,200.16	806.49	393.66	3.049		
15 400 00	E 206 20	12.040.40	E 204 64	222.25	174.00	00.30	2 040 24	4 477 05	1 200 16	901.04	200.22	2.014		
15,400.00	5,286.39	13,049.49	5,294.61	223.35	174.98	-90.39	-3,849.34	4,477.25	1,200.16	801.94	398.22	3.014		
15,500.00	5,286.00	13,149.49	5,294.15	225.60	177.30	-90.39	-3,914.35	4,553.24	1,200.16	797.37	402.78	2.980		
15,600.00	5,285.62	13,249.49	5,293.68	227.84	179.61	-90.38	-3,979.35	4,629.23	1,200.16	792.81	407.35	2.946		
15,700.00	5,285.23	13,349.49	5,293.22	230.09	181.93	-90.38	-4,044.35	4,705.22	1,200.16	788.24	411.92	2.914		
15,800.00	5,284.84	13,449.49	5,292.75	232.35	184.24	-90.38	-4,109.36	4,781.21	1,200.15	783.67	416.49	2.882		
15,900.00	5,284.45	13,549.49	5,292.29	234.60	186.56	-90.37	-4,174.36	4,857.20	1,200.15	779.09	421.06	2.850		
16,000.00	5,284.07	13,649.49	5,291.82	236.86	188.88	-90.37	-4,239.37	4,933.18	1,200.15	774.51	425.64	2.820		
16,100.00	5,283.68	13,749.49	5,291.35	239.12	191.20	-90.37	-4,304.37	5,009.17	1,200.15	769.93	430.22	2.790		
16,200.00	5,283.29	13,849.49	5,290.89	241.38	193.52	-90.36	-4,369.37	5,085.16	1,200.15	765.34	434.81	2.760		
16,300.00	5,282.90	13,949.49	5,290.42	243.64	195.84	-90.36	-4,434.38	5,161.15	1,200.15	760.76	439.39	2.731		
16,400.00	5,282.52	14,049.49	5,289.96	245.90	198.17	-90.36	-4,499.38	5,237.14	1,200.15	756.17	443.98	2.703		
16,500.00	5,282.13	14,149.49	5,289.49	248.17	200.49	-90.35	-4,564.38	5,313.13	1,200.15	751.57	448.58	2.675		
16,600.00	5,281.74	14,249.49	5,289.03	250.44	202.81	-90.35	-4,629.39	5,389.12	1,200.15	746.98	453.17	2.648		
16,700.00	5,281.35	14,349.49	5,288.56	252.71	205.14	-90.34	-4,694.39	5,465.11	1,200.15	742.38	457.77	2.622		
16,800.00	5,280.96	14,449.49	5,288.10	254.98	207.47	-90.34	-4,759.39	5,541.10	1,200.15	737.78	462.37	2.596		
16,900.00	5,280.58	14,549.49	5,287.63	257.25	209.79	-90.34	-4,824.40	5,617.09	1,200.15	733.18	466.97	2.570		
17,000.00	5,280.19	14,649.49	5,287.17	259.53	212.12	-90.33	-4,889.40	5,693.07	1,200.15	728.57	471.57	2.545		
17,100.00	5,279.80	14,749.49	5,286.70	261.80	214.45	-90.33	-4,954.40	5,769.06	1,200.14	723.97	476.18	2.520		
17,200.00	5,279.41	14,849.49	5,286.24	264.08	216.78	-90.33	-5,019.41	5,845.05	1,200.14	719.36	480.79	2.496		
17,300.00	5,279.03	14,949.49	5,285.77	266.36	219.11	-90.32	-5,084.41	5,921.04	1,200.14	714.74	485.40	2.472		
17,400.00	5,278.64	15,049.49	5,285.31	268.64	221.44	-90.32	-5,149.41	5,997.03	1,200.14	710.13	490.01	2.449		
17,500.00	5,278.25	15,049.49	5,284.84	270.92	223.77	-90.32 -90.31	-5,149.41 -5,214.42	6,073.02	1,200.14	710.13	494.63	2.449		
17,600.00	5,276.25	15,149.49	5,284.38	273.20	226.10	-90.31	-5,214.42 -5,279.42	6,149.01	1,200.14	700.90	494.63	2.426		
17,600.00	5,277.55	15,249.49	5,284.38	275.05	227.98	-90.31 -90.31	-5,279.42 -5,331.91	6,210.37	1,200.14	697.17	499.24 502.97	2.404		
17,080.76	5,277.47	15,330.24	5,284.00	275.49	227.98	-90.31 -90.31	-5,331.91 -5,331.91	6,210.37	1,200.14	696.85	502.97	2.386 2.384 SF		
17,800.00	5,277.09	15,330.24	5,284.00	277.78	227.98	-90.31	-5,331.91	6,210.37	1,206.05	703.67	502.38	2.401		



Company: Enduring Resources LLC

Project: Sandoval County, New Mexico NAD83 NM C

Reference Site: North Alamito Unit (102 & 106)

Site Error: 0.00 ft

Reference Well: North Alamito Unit 106 H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Site North Alamito Unit (102 & 106) RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Reference: Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: DT_Aug2923v16

Offset TVD Reference: Offset Datum

Offset Des	sign: No	rth Alamito	Unit (102	& 106) - No	orth Alam	ito Unit 102 l	H - Original Ho	le - rev0					Offset Site Error:	0.00 ft
Survey Progr Refer	ence	MWD Off:			lajor Axis		Offset Wellbo	ore Centre	Rule Assigned: Distance				Offset Well Error:	0.00 ft
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	Warning	
17,900.00	5,276.70	15,330.24	5,284.00	280.06	227.98	-90.31	-5,331.91	6,210.37	1,220.00	724.26	495.75	2.461		
18,000.00	5,276.31	15,330.24	5,284.00	282.35	227.98	-90.31	-5,331.91	6,210.37	1,241.87	757.49	484.39	2.564		
18,100.00	5,275.92	15,330.24	5,284.00	284.64	227.98	-90.31	-5,331.91	6,210.37	1,271.26	801.79	469.47	2.708		
18,200.00	5,275.54	15,330.24	5,284.00	286.93	227.98	-90.31	-5,331.91	6,210.37	1,307.65	855.45	452.20	2.892		
18,300.00	5,275.15	15,330.24	5,284.00	289.22	227.98	-90.31	-5,331.91	6,210.37	1,350.48	916.83	433.65	3.114		
18,400.00	5,274.76	15,330.24	5,284.00	291.52	227.98	-90.31	-5,331.91	6,210.37	1,399.16	984.48	414.68	3.374		
18,500.00	5,274.37	15,330.24	5,284.00	293.81	227.98	-90.31	-5,331.91	6,210.37	1,453.10	1,057.20	395.89	3.670		
18,600.00	5,273.98	15,330.24	5,284.00	296.11	227.98	-90.31	-5,331.91	6,210.37	1,511.74	1,134.02	377.71	4.002		
18,700.00	5,273.60	15,330.24	5,284.00	298.40	227.98	-90.31	-5,331.91	6,210.37	1,574.55	1,214.16	360.38	4.369		
18,800.00	5,273.21	15,330.24	5,284.00	300.70	227.98	-90.31	-5,331.91	6,210.37	1,641.05	1,297.01	344.04	4.770		
18,900.00	5,272.82	15,330.24	5,284.00	303.00	227.98	-90.31	-5,331.91	6,210.37	1,710.82	1,382.08	328.74	5.204		
19,000.00	5,272.43	15,330.24	5,284.00	305.30	227.98	-90.31	-5,331.91	6,210.37	1,783.46	1,468.97	314.49	5.671		
19,100.00	5,272.05	15,330.24	5,284.00	307.60	227.98	-90.31	-5,331.91	6,210.37	1,858.65	1,557.40	301.25	6.170		
19,200.00	5,271.66	15,330.24	5,284.00	309.90	227.98	-90.31	-5,331.91	6,210.37	1,936.09	1,647.11	288.98	6.700		
19,300.00	5,271.27	15,330.24	5,284.00	312.20	227.98	-90.31	-5,331.91	6,210.37	2,015.51	1,737.91	277.61	7.260		
19,400.00	5,270.88	15,330.24	5,284.00	314.50	227.98	-90.31	-5,331.91	6,210.37	2,096.70	1,829.63	267.07	7.851		
19,500.00	5,270.50	15,330.24	5,284.00	316.81	227.98	-90.31	-5,331.91	6,210.37	2,179.45	1,922.14	257.31	8.470		
19,600.00	5,270.11	15,330.24	5,284.00	319.11	227.98	-90.31	-5,331.91	6,210.37	2,263.59	2,015.33	248.26	9.118		



Company: Enduring Resources LLC

Project: Sandoval County, New Mexico NAD83 NM C

Reference Site: North Alamito Unit (102 & 106)

Site Error: 0.00 ft

Reference Well: North Alamito Unit 106 H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Site North Alamito Unit (102 & 106) **TVD Reference:** RKB=6962+25 @ 6987.00ft MD Reference: RKB=6962+25 @ 6987.00ft

North Reference: Grid

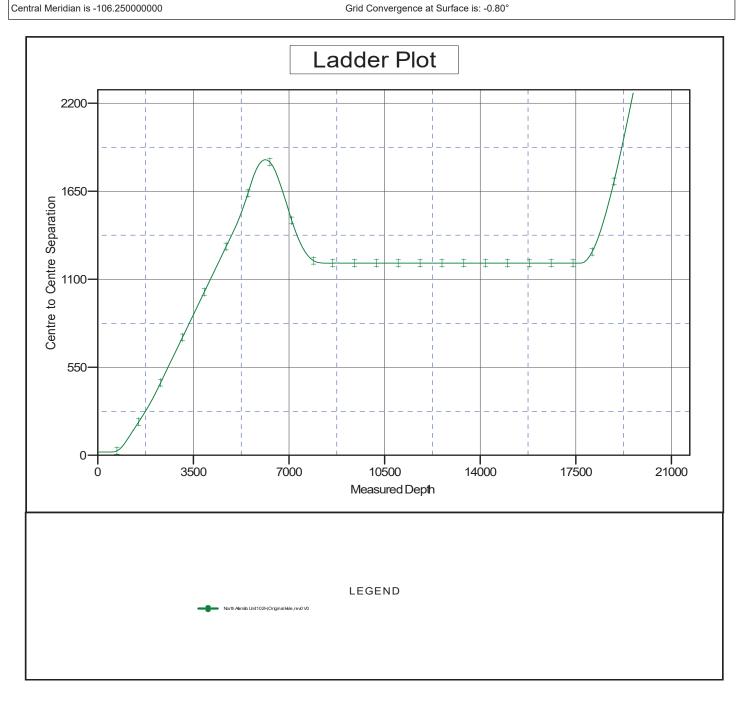
Minimum Curvature **Survey Calculation Method:** Output errors are at 2.00 sigma

DT_Aug2923v16 Database: Offset TVD Reference: Offset Datum

Reference Depths are relative to RKB=6962+25 @ 6987.00ft Coordinates are relative to: North Alamito Unit (102 & 106)

Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Central Zone

Grid Convergence at Surface is: -0.80°





TVD Reference:

MD Reference:

North Reference:

Company: Enduring Resources LLC

Project: Sandoval County, New Mexico NAD83 NM C

Reference Site: North Alamito Unit (102 & 106)

Site Error: 0.00 f

Reference Well: North Alamito Unit 106 H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev0

Local Co-ordinate Reference:

Site North Alamito Unit (102 & 106) RKB=6962+25 @ 6987.00ft

RKB=6962+25 @ 6987.00ft RKB=6962+25 @ 6987.00ft

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

Database: DT_Aug2923v16
Offset TVD Reference: Offset Datum

Reference Depths are relative to RKB=6962+25 @ 6987.00ft

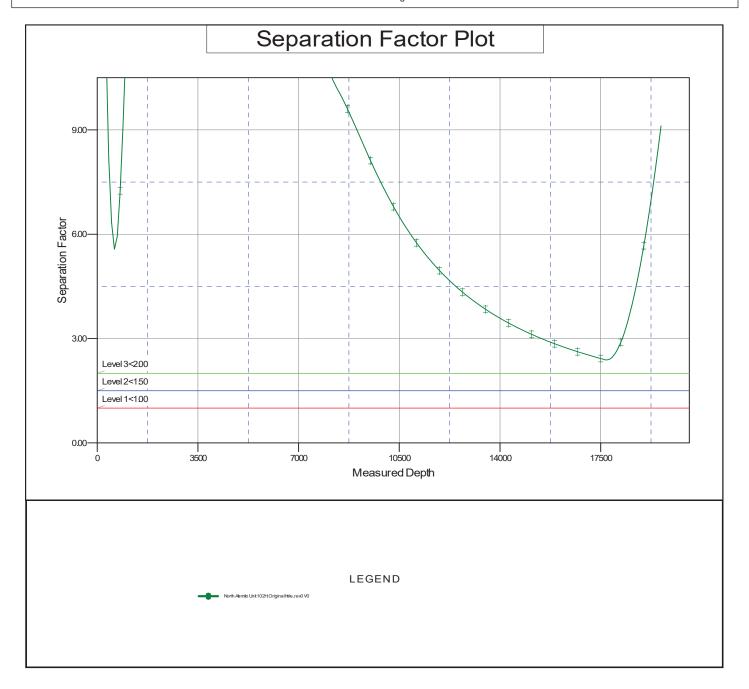
Offset Depths are relative to Offset Datum

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°



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 # 2774620 Request for Bottom Hole Location and Dedicated Acreage Changes

Operator: DJR Operating LLC NMNM 81638
Agreement: NMNM 135229A

Well: North Alamito Unit 106H (API # 30-043-21508)
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

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 313753

CONDITIONS

Operator:	OGRID:
DJR OPERATING, LLC	371838
200 Energy Court	Action Number:
Farmington, NM 87401	313753
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created	d 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