

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Repor

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

Unit or CA Name: /1/NORTH ALAMITO

UNIT

Unit or CA Number: NMNM135229A

US Well Number: 3004321508

Operator: DJR OPERATING LLC

Notice of Intent

Sundry ID: 2791499

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 05/20/2024 **Time Sundry Submitted: 02:27**

Date proposed operation will begin: 05/20/2024

Procedure Description: DJR respectfully requests approval to change the casing and cement design for the subject well. Attached please find a revised Drilling and Directional Plan; reflecting changes to the lateral length, intermediate/production liner casing size, set depth and cement slurry assumptions. 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

C102_NAU_106H_20240520142712.pdf

North_Alamito_Unit_106H_Drilling_Package_Rev2_20240520142712.pdf

eceived by OCD: 5/21/2024 2:04:53 PM Well Name: NORTH ALAMITO UNIT

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Page 2 of

SANDOVAL / NM

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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: MAY 20, 2024 02:27 PM

Name: DJR OPERATING LLC

Title: Regulatory Specialist

Street Address: 1 ROAD 3263

City: AZTEC State: NM

Phone: (505) 632-3476

Email address: SFORD@ENDURINGRESOURCES.COM

Field

Representative Name:

Street Address:

Citv:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742 BLM POC Email Address: krennick@blm.gov

Disposition: Approved **Disposition Date:** 05/21/2024

Signature: Kenneth Rennick

Page 2 of 2

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	1					
30-043-21508	3	98174	NORTH ALAMITO UNIT M	ANCOS O	IL POOL			
⁴ Property Code		5 Pro	perty Name		• Well Number			
325267		NORTH A	ALAMITO UNIT		106H			
OGRID No		Operator Name						
371838		DJR OPERATING, LLC						

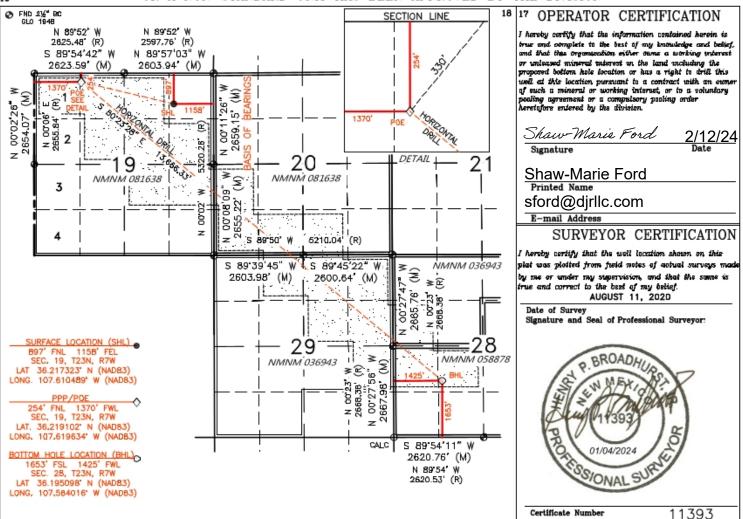
¹⁰ Surface Location

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

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	28	23N	7W		1653'	SOUTH	1425'	WEST	SANDOVAL
18 Dedicated Acres PENETRATED SPACING UNIT;			13 Joint or I	nfill 14 Consolidati	on Code	15 Order No.			
SEC 19: LOT 1, ME/MM, SE/NW, NW/ME, SS/NE, SE/NE, NW/SE & NE/SE (320.82 AC.); SEC 20: NW/SW, SW/SW, SE/SW & SW/SE (16D AC.); SEC 20: NE/NW, NE/A & ME/SE (240 AC.); SEC 28: SW/NW, NW/SW & NE/SW (12D AC.) = B40.82 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 AFE Number: DV03212 ER Well Number: Not yet assigned

State: New Mexico
County: Sandoval

Surface Elevation: 6,962 ft ASL (GL) 6,986 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:** 28-23N-07W Sec-Twn-Rng 1,653 ft FNL 1,425 ft FEL

36.195098 ° N latitude 107.584016 ° 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 A19-2307 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	1,071	1,080	W	normal
Kirtland	5,800	1,186	1,202	W	normal
Fruitland	5,630	1,356	1,388	G, W	sub
Pictured Cliffs	5,294	1,692	1,774	G, W	sub
Lewis	5,139	1,847	1,954	G, W	normal
Chacra	4,889	2,097	2,243	G, W	normal
Cliff House	3,802	3,184	3,500	G, W	sub
Menefee	3,761	3,225	3,546	G, W	normal
Point Lookout	2,930	4,056	4,507	G, W	normal
Mancos	2,720	4,266	4,750	O,G	sub (~0.38)
Gallup (MNCS_A)	2,381	4,605	5,130	O,G	sub (~0.38)
MNCS_B	2,281	4,705	5,233	O,G	sub (~0.38)
MNCS_C	2,194	4,792	5,321	O,G	sub (~0.38)
MNCS_Cms	2,149	4,837	5,367	O,G	sub (~0.38)
MNCS_D	2,024	4,962	5,500	O,G	sub (~0.38)
MNCS_E	1,913	5,073	5,632	O,G	sub (~0.38)
MNCS_F	1,859	5,127	5,702	O,G	sub (~0.38)
MNCS_G	1,785	5,201	5,816	O,G	sub (~0.38)
MNCS_H	1,725	5,261	5,940	O,G	sub (~0.38)
MNCS_I	1,701	5,285	6,018	O,G	sub (~0.38)
FTP TARGET	1,717	5,269	5,964	O,G	sub (~0.38)
PROJECTED TD	1,721	5,265	18,437	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: 2,270 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: Ensign Rig No.: 140

Draw Works: Pacific Rim 1500AC (1,500 hp)

Mast: Process MFG Corp Swing Up Triple (136 ft, 750,000 lbs)

Top Drive: Tesco 400-EXI-600 (400 ton) **Prime Movers:** 3 - CAT 3512C (1,350 hp)

Pumps: 2 - Gardner Denver PZ-11 (7,500 psi)

BOPE 1: T3 Annular & Shaffer double gate ram (11", 5,000 psi)

BOPE 2: T3 annular(11", 5,000 psi)

Choke 3", 5,000 psi

KB-GL (ft): 23.5

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

STATE AND FEDERAL	NOTIFICATIONS	BLM	State
Construction and	BLM is to be notified minimum of 48 hours prior to start of construction or reclamation.		
Reclamation:	Grazing permittee is to be notified 10 days in advance.	(505) 564-7600	
Spud	BLM and state are to be notified minimum of 24 hours prior to spud.	(505) 564-7750	(505) 334-6178
ВОР	BLM is to be notified minimum of 24 hours prior to BOPE testing.	(505) 564-7750	see note
Casing / cementing	BLM and state are to be notified minimum of 24 hours prior to running casing and		
	cementing.	(505) 564-7750	(505) 334-6178
Plugging	BLM and state are to be notified minimum of 24 hours prior to plugging ops.	(505) 564-7750	see note
	All notifications are to be recorded in the WellView report with time, date, name or		
	number that notifications were made to.		
	<u>Note</u> : Monica Keuhling with the OCD requests state notifications 24 hrs in advance for sp	oud, BOP tests,	casing &
	cementing and any plugging be given to her in both phone message and email: (505) 320	-0243,	
	monica.keuhling@emnrd.nm.gov		
DODE DECLUDERATERS			

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:	Туре	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

Procedure: Drill to TD. After reaching TD, run gyro survey in 100' stations from TD to surface. Wiper trip. Condition hole and fluid for casing running. TOH. Run casing. Pump cement as detailed below. Monitor returns during cement job and note cement volume to surface. Install cellar and wellhead.

							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	1,132	110,988	110,988	l
Min. S.F.					13.21	3.11	5.08	3.81	

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

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling

intermediate hole and 8.4 ppg equivalent external pressure gradient Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): 3,400 Optimum: 4,530 Maximum: Minumum: 5.660

Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface

Centralizers: 2 centralizers per jt stop-banded 10' from each collar on bottom 3 jts, 1 centralizer per 2 jts to surface

			Yield	Water	Hole Cap.		Planned TOC	Total Cmt	Total Cmt (cu
Cement:	Туре	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

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

Mesa Ready Mix or first available Shoe Track L

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength

before drilling out.

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

350 ft (MD)	to	6,064 ft (MD)	Hole Section Length:	5,714 ft
350 ft (TVD)	to	5,295 ft (TVD)	Casing Required:	6,064 ft

			FL		ΥP		
Fluid:	Туре	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	рН	Comments
	LSND (KCI)	8.8 - 9.2	15	8 - 14	6 - 12	10.8 - 11.2	No OBM

Procedure: Mud system is to have a 7% KCl base and 3% blown asphalt type product added for additional hole stability. Bulk KCl is to be used. When mixing mud, all safety equipment is to be used including face shields. Fluid loss control should be moderate and in the 15 ml range. Control GPM (350 to 400 if possible) from BSC to ±2,000' MD in order to minimize washout in the less consolidated surface formations.

Hole Size: 8.75

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

Bit / Motor: MOTOR: NOV 087840 - 7/8, 4.0, stage, 0.16 rev/gal, 1.83 DEG, 600 GPM, 950 DIFF PSIG

BIT: 5-BLADE PDC w/16 mm or 19 mm cutters, TFA = 1.2 sq-in (range 1.00 - 1.50 max), jet with 5 - 18's

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

Logging: None

Pressure Test: NU BOPE and test (as noted above); pressure test 13-3/8" casing to 1.500 psi for 30 minutes.

Procedure: Drill to TD following directional plan (20' rat-hole past casing setting depth). Steer as needed to keep well on plan. Keep DLS < 3 deg/100' and keep slide length < 10', when possible during back build and hold section. Build is planned at 10°/100' and landing is to be at ±80° inclination. Take surveys every stand, at a minimum. Target flow-rates of 400 to 600 GPM after 2,000' MD. Minimum desired flow-rate is 450 GPM. At TD, condition hole and fluid for casing running but keep to a minimum due to uphole instability problems that are possible. Confirm landing target, planned BUR for curve, and KOP with Geology and Engineering. Drill curve following directional plan and updated landing target. Take survey every joint during curve. Land curve. TOOH. Run casing using a CRT and washing / circulating as required. Land casing. ND BOPE. Walk rig to next well. Perform off-line cement job if possible. Pump cement as detailed below. Monitor returns during cement job and note cement volume to surface.

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	7	26.0	K-55	LTC	4,320	4,980	415,000	367,000
Loading					2,313	1,423	237,491	237,491
Min. S.F.					1.87	3.50	1.75	1.55

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling production hole and 8.4 ppg equivalent external pressure gradient

Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): Minumum: 3,400 Optimum: 4,530 Maximum: 5,660

Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface (FLOAT EQUIPMENT FROM WEATHERFORD) (all casing must be

drifted as OD of liner hanger system is 5.818")

Centralizers: 1 per joint in non-vertical hole; 1 per 2-joints in vertical hole

Centralizers: 1 centralizers jt stop-banded 10' from float shoe on bottom 1 jt & 1 centralizer floating on bottom joint, 1 centralizer

per jt (floating) to KOP; 1 centralizer per 3 jts to surface (Centralizers from Scepter Supply - SLIP'N'SLIDE 9-5/8" x

12" SOLID BODY POLYMER)

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% 0 541 1,157 Tail 14.6 1.380 6.64 20% 4,650 192 265 Type III

Annular Capacity

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

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

Drake Intermediate Cementing Program

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

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

	6,064	6,064 ft (MD) to			ft (MD)	Hole S	Hole Section Length:			
	5,295	ft (TVD)	to	5,265	ft (TVD)	Ca	Casing Required:			
			Estimated KOP:	4,961	ft (MD)	4,448	ft (TVD)			
Γ		Esti	mated Liner Top:	5,914	ft (MD)	5,250	ft (TVD)			
	Est	timated Lan	ding Point (FTP):	5,964	ft (MD)	5,269	ft (TVD)			
		Estimate	d Lateral Length:	12,473	ft (MD)			•		

ΥP Fluid: Type MW (ppg) FL (mL/30') PV (cp) (lb/100 sqft) рН Comments Comments OBM as 8.7 - 9.09-9.5 NC +20 prod water contingency

Fluids / Solids Notes: Drilling fluid will be production water and Newpark lubricant NDFT 487 (1.5 to 2% by retort). Corrosion inhibitor is to be used.

contingency only: Newpark OptiDrill OBM system. Ensure that drying shakers are rigged up after the rig (2nd set) of shakers. Solids control will burn retorts on cuttings samples one per tour to check % ROC. Add diesel and products as required to maintain mud in program specs. Reference Newpark's mud program for additional details. No asphalt products are to be added to the OBM system. Any changes to the mud systems are to be discussed with engineering prior to application.

Hole Size: 6.125

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

Bit / Motor (Detail): MOTOR: NOV 500ERT6764 - 6/7, 6.4, stage, 0.79 rev/gal, 1.83 DEG, 250-400 GPM, 1,710 DIFF PSIG (or similar); on

demand friction breaking device(s) as required, bottom tool spaced ~3,000' behind the bit.

BIT: 5-BLADE Long Guage PDC w/13 mm - 16 mm cutters, matrix body, target TFA = 1.0 - 1.5 sq-in

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

minimum before KOP and after Landing Point)

Logging: GR MWD for entire section, no mud-log or cuttings sampling, no OH WL logs

Pressure Test: NU BOPE and test (as noted above); pressure test 9-5/8" casing to 1,500 psi for 30 minutes.

Procedure: Target flow-rate is 250 - 400 GPM. Target differential is pressure is 700 - 1,000 psig. Target ROP 300 - 600 ft/hr. Steer as needed to keep well on plan. Keep DLS < 1 deg/100' and keep slide length < 10', when feasible. Take surveys every stand, at a minimum. After reaching TD, perform clean-up cycle to condition hole for casing running. Spot lube as needed and TOOH (ROOH, if required; should NOT be required with OBM system). Run liner as described below. Verify make up torque when running casing. Space out liner getting the toe sleeve as close to LTP as possible while maintaining ±150' of liner lap. Follow liner setting procedure. Circulate as required. Perform cement job. Pump cement as detailed below. Note cement volume circulated to surface.

Liner/Casing Specs: Specs Loading Min. S.F.

							Tens. Body	Tens. Conn
::	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
s	4.500	11.6	P-110	BTC	7,560	10,690	367,000	385,000
g					2,601	8,801	284,550	284,550
₹.					2.91	1.21	1.29	1.35

Assumptions: Collapse: fully evacuated casing with 9.5 ppg fluid in the annulus (floating casing during running) Burst: 8,500 psi maximum surface treating pressure with 10.2 ppg equivalent mud weight sand laden fluid with 8.4 ppg equivalent external pressure gradient.

Tension: buoyed weight in 9.0 ppg fluid with 100,000 lbs over-pull. Tension calculations assume vertical hole to approximate drag in lateral.

MU Torque (ft lbs):

Minumum:

BTC

Optimum:

BTC

Maximum:

BTC

Planned TOC

(ft MD)

0

5,914

Total Cmt

(sx)

60 bbls

1,014

Total Cmt (cu

ft)

1,582

Liner Summary: Float shoe, 1 jt casing, double float -float collar (Weatherford float equipment), landing collar, 1 joint csg, toeintitiation sleeve (Weatherford (WFT) RD 8,500 psi), casing to shoe of 7" and overlap to liner top at 65° inclination or 150' MD from base of intermediate casing to top of liner hanger / packer / liner tie back sleeve per plan with 20' marker joints spaced evenly in lateral every ~2,000'. Run liner dry, do not use a floatation sub but have one on location as a back up(NCS Air-Lock 2,500 psi from WFT), drill pipe to surface. The toe-initiation sleeve shall be placed no closer to the unit boundary than 330' measured perpendicular to the East or West lease lines for a East-West azimuth drilled wellbore. Wellbore path must be no closer than 330' from the parallel lease lines. Note: the LTP is the maximum depth of the toe sleeve and is noted on the Well Plan. Drill past the LTP as required for necessary rathole and shoe-track length to place the toe sleeve as close to (but not past) the planned LTP as possible.

Liner Procedure Prior to TD, record pump rate and pressure, torque and RPM, PU, SO and static weights with and w/o pumps. Plan TD and liner tally to ensure liner hanger is not placed across any 7" casing connection. Rabbit drill pipe on last trip and ensure recovery of drift. Run liner as above, PU last joint and record PU/SO weights. PU hanger assembly and install liner wiper plug system. MU joint of DP and circulate liner volume. TIH to set depth. Break circ slowly, C&C. On depth drop setting ball, pump <2 bpm. With ball on seat, increase pressure to 20% higher than pinned press, hold 3 minutes. Slack off to check liner hanger has been set. If not set, increase pressure 200 psi and repeat process. Once set, slack off liner weight plus 5 k#'s. Rotate 20 rounds to right to release from hanger. PU no more than 3' to ensure liner release. Slack off 20 k#'s. Increase pump pressure to ±2,500 psi to shear ball and regain circulation. Record pressures. Increase SO weight to 40 k#'s for cement job. Pump cement, launch DP wiper plug, engage with liner wiper plug and record shear pressure. Bump plug, RD cement head. PU DP to expose liner packer dogs above PBR. Lower DP, mark DP when dogs are on PBR. Slack off to shear packer pins and energize packing element and slips. Pull PBR packoff out of PBR while slowly engaging pumps to ensure cement does not fall into PBR. Clear PBR, pump ±10 bbls to clear cement, pressure test hanger seals to 2,000 psi. Release, check for flow and circulate BU and record cement volume to surface.

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

Lateral: 1 centralizer per 3 joints (purchase centralizers from Scepter Supply)

Yield

(cuft/sk)

90° inclination to liner hanger: 1 centralizer per joint

Cement: Spacer

11 IntegraGuard Star G:POZ blend 13.3 1.560 Tail

Weight (ppg)

Displacement

253 est bbls

Water

(gal/sk)

31.6

7.70

% Excess

30%

Type

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

IntegraGuard Star

S-8 Silica Flour Avis 616 viscosifier FP24 Defoamer .5 Plus 3K LCM 15 SS201 Surfactant 1

Spacer163.7 lbs/bbl11.6 lb/bbllb/bbllb/bblgal/bbl

Bentonite IntegraGuard FP24 Defoamer

BA90 Bonding Viscosifier 8% FL24 Fluid Loss .5% GW86 Viscosifier R7C Retarder .2% 0.3% BWOB, Anti
Lead ASTM Type I/II Agent 5.0 lb/sx BWOB BWOB .1% BWOB BWOB Static .01 lb/sx

FP24 Defoamer

Bentonite IntegraGuard .3% BWOB,

LCM will be added to spacer. LCM may be added lead slurry and tail slurry depending on drilling observations and observations during cementing on initial wells on pad.

Notify NMOCD & BLM if cement is not circulated to surface.

Note: This well will not be considered an unorthodox well location as definted by NMAC19.15.16.15.C.5. As defined in NMAC 19.15.16.15.C.1.a and 19.15.16.15.C.1.b, no point in the completed interval shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth well. The boundaries of the completed interval, as defined by NMAC 19.15.16.7.B, are the last take point and first take point, as defined by NMAC 19.15.16.7.E and NMAC 19.15.16.7.J, respectively. In the case of this well, the last take point will be the bottom toe-initiation sleeve, and the first take point will be the top perforation. Neither the toe-initiation sleeve nor the top perforation shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth of the well.

FINISH WELL: ND BOP, cap well, RDMO.

Procedure: After off-line cement job, cap and cover well. Continue drilling operations on subsequent wells on pad.

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 12,373

Est Frac Inform: 52 Frac Stages 198,000 bbls slick water 16,090,000 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:
 4/18/2024

MD (ft KB)

1,080

1,202

1,388

1,774

1,954

2,243

3,500

3,546

4,507

4.750

5.130

5,233

5,321

5,367

5,500

5.632

5,702

5.816

5.940

6,018

5,964

18.437

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: DV03212 ER Well Number: Not yet assigned

State: New Mexico

County: Sandoval

ft ASL (KB) Surface Elev.: 6,962 ft ASL (GL) 6,986

Surface Location: 19-23N-07W Sec-Twn- Rng 897 ft FNL 1,158 ft FEL BH Location: 28-23N-07W Sec-Twn- Rng 1653 ft FNL 1425 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 A19-2307 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	12.250	350	9.625	36	K-55	STC	0	350
Intermediate	8.750	6,064	7	26.0	K-55	LTC	0	6,064
Production	6.125	18,437	4.500	11.6	P-110	BTC	5,914	18,437

CEMENT PROPERTIES SUMMARY:

					Hole Cap.		тос	
	Type	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	541
Inter. (Tail)	Type III	14.6	1.38	6.64	0.1503	20%	4,650	192
Prod. (Lead)	0	0	0.000	0	0.1044	0%	0	0
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.0873	30%	5,914	1,014

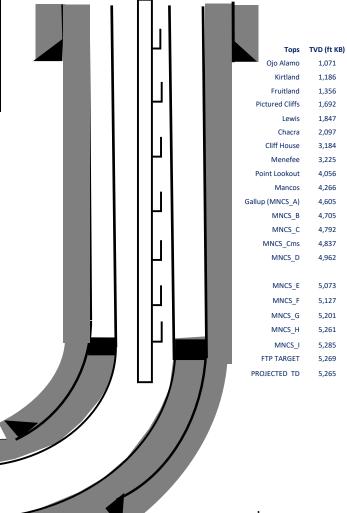
COMPLETION / PRODUCTION SUMMARY:

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

QUICK REFERENCE										
Sur TD (MD)	350	ft								
Int TD (MD)	6,064	ft								
KOP (MD)	4,961	ft								
KOP (TVD)	4,448	ft								
Target (TVD)	5,269									
Curve BUR	10	°/100 ft								
POE (MD)	5,964	ft								
TD (MD)	18,437	ft								
Lat Len (ft)	12,473	ft								
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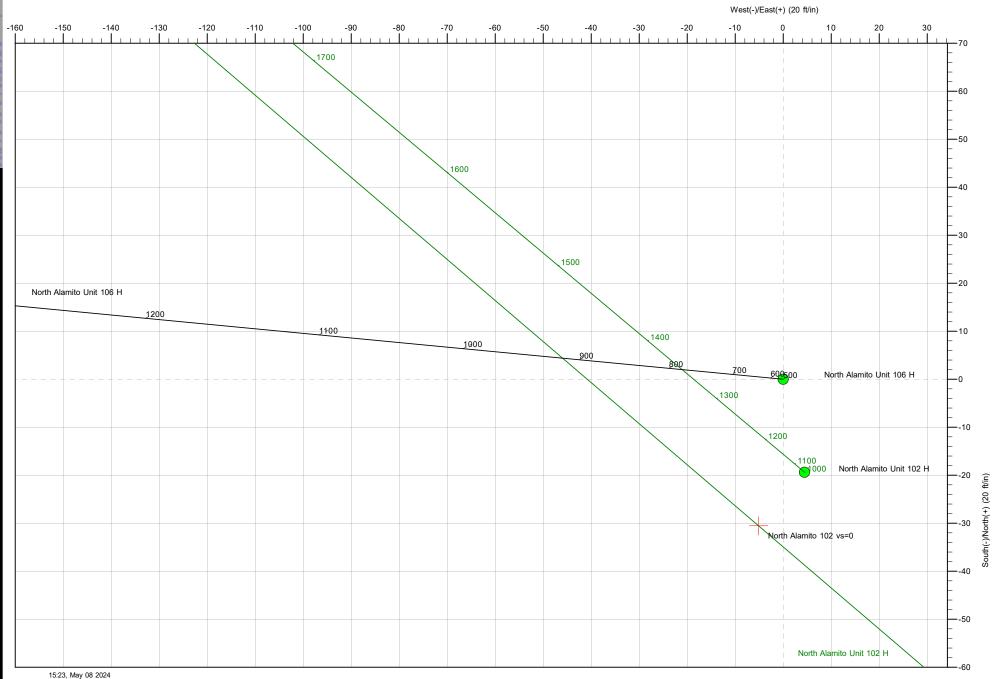
Well: North Alamito Unit 106 H

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

Design: rev3

Rig: Ensign 140







Database: DT_Mar1724_v17

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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Grid

Minimum Curvature

Project Sandoval County, New Mexico NAD83 NM C

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

System Datum: Mean Sea Level

Site North Alamito Unit (102 & 106)

 Site Position:
 Northing:
 1,901,167.83 usft
 Latitude:
 36.21727000

 From:
 Lat/Long
 Easting:
 1,239,107.83 usft
 Longitude:
 -107.61047300

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

Well North Alamito Unit 106 H, Surf loc: 897 FNL 1158 FEL Section 19-T23N-R07W 0.00 ft 1,901,187.20 usft 36.21732300 **Well Position** +N/-S Northing: Latitude: 1,239,103.38 usft -107.61048900 +E/-W 0.00 ft Easting: Longitude: **Position Uncertainty** 0.00 ft Wellhead Elevation: ft Ground Level: 6,962.00 ft

Grid Convergence: -0.80 °

Wellbore Original Hole Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) 49,028.15053347 IGRF2020 4/17/2024 8.44 62.70

Design rev3 Audit Notes: **PLAN** Tie On Depth: 0.00 Version: Phase: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 136.806 0.00 0.00 0.00

Plan Survey Tool Program Date 5/8/2024

Depth From (ft) (ft) Survey (Wellbore) Tool Name Remarks

1 0.00 18,436.24 rev3 (Original Hole) MWD

OWSG MWD - Standard



Database: DT_Mar1724_v17

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: rev3

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140)

RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Grid

an Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
498.50	0.00	0.000	498.50	0.00	0.00	0.00	0.00	0.00	0.00	
1,502.27	30.11	275.462	1,456.69	24.53	-256.59	3.00	3.00	0.00	275.46	
4,960.69	30.11	275.462	4,448.35	189.68	-1,983.83	0.00	0.00	0.00	0.00	
5,484.45	25.00	130.545	4,947.48	125.73	-2,034.07	10.00	-0.98	-27.67	-162.14	
5,634.45	37.00	130.545	5,075.82	75.60	-1,975.47	8.00	8.00	0.00	0.00	
5,964.45	70.00	130.545	5,269.41	-94.46	-1,776.66	10.00	10.00	0.00	0.00	
6,166.29	90.18	130.545	5,303.96	-223.05	-1,626.35	10.00	10.00	0.00	0.00	
18,436.95	90.18	130.545	5,264.50	-8,199.42	7,698.09	0.00	0.00	0.00	0.00	North Alamito 106 Bl



Database: DT_Mar1724_v17
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: rev3

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

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	0.00	0.00	0.00	0.00	0.00	0.00
50.00	0.00	0.000	50.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	0.00	0.000 0.000	150.00 200.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
250.00	0.00	0.000	250.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
348.50	0.00	0.000	348.50	0.00	0.00	0.00	0.00	0.00	0.00
9-5/8" Surfac									
350.00	0.00	0.000	350.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
450.00	0.00	0.000	450.00	0.00	0.00	0.00	0.00	0.00	0.00
498.50	0.00	0.000	498.50	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 3									
500.00	0.05	275.462	500.00	0.00	0.00	0.00	3.00	3.00	0.00
550.00	1.55	275.462	549.99	0.07	-0.69	-0.52	3.00	3.00	0.00
600.00	3.05	275.462	599.95	0.26	-2.68	-2.02	3.00	3.00	0.00
650.00	4.55	275.462	649.84	0.57	-5.98	-4.51	3.00	3.00	0.00
700.00	6.05	275.462	699.63	1.01	-10.57	-4.51 -7.97	3.00	3.00	0.00
750.00	7.55	275.462	749.27	1.57	-16.46	-12.41	3.00	3.00	0.00
800.00	9.05	275.462	798.75	2.26	-23.64	-17.83	3.00	3.00	0.00
850.00	10.55	275.462	848.02	3.07	-32.11	-24.22	3.00	3.00	0.00
900.00	12.05	275.462	897.05	4.00	-41.86	-31.57	3.00	3.00	0.00
950.00	13.55	275.462	945.81	5.06	-52.88	-39.88	3.00	3.00	0.00
1,000.00	15.05	275.462	994.26	6.23	-65.17	-49.15	3.00	3.00	0.00
1,050.00 1,079.71	16.55 17.44	275.462 275.462	1,042.37 1,070.78	7.53 8.35	-78.72 -87.36	-59.37 -65.88	3.00 3.00	3.00 3.00	0.00 0.00
	17.44	273.402	1,070.70	0.55	-07.30	-05.00	3.00	3.00	0.00
Ojo Alamo									
1,100.00	18.05	275.462	1,090.11	8.94	-93.51	-70.52	3.00	3.00	0.00
1,150.00	19.55	275.462	1,137.44	10.47	-109.55	-82.62	3.00	3.00	0.00
1,200.00	21.05	275.462	1,184.33	12.12	-126.81	-95.64	3.00	3.00	0.00
1,201.68	21.10	275.462	1,185.90	12.18	-127.41	-96.09	3.00	3.00	0.00
Kirtland									
1,250.00	22.55	275.462	1,230.76	13.89	-145.29	-109.58	3.00	3.00	0.00
1,300.00	24.05	275.462	1,276.68	15.77	-164.97	-124.42	3.00	3.00	0.00
1,350.00	25.55	275.462	1,322.07	17.77	-185.85	-140.16	3.00	3.00	0.00
1,387.94	26.68	275.462	1,356.14	19.36	-202.47	-152.70	3.00	3.00	0.00
Fruitland									
1,400.00	27.05	275.462	1,366.89	19.88	-207.90	-156.79	3.00	3.00	0.00
1,450.00	28.55	275.462	1,411.12	22.10	-231.10	-174.29	3.00	3.00	0.00
1,500.00	30.05	275.462	1,454.73	24.43	-255.46	-192.66	3.00	3.00	0.00
1,502.27	30.05	275.462	1,456.69	24.43	-255.46 -256.59	-192.66	3.00	3.00	0.00
Begin 30.11°		2,0.702	1,100.00	27.00	200.00	100.01	0.00	0.00	0.00
1,550.00	30.11	275.462	1,497.98	26.81	-280.43	-211.49	0.00	0.00	0.00
1,600.00	30.11	275.462	1,541.23	29.20	-305.40	-230.32	0.00	0.00	0.00
1,650.00	30.11	275.462	1,584.48	31.59	-330.37	-249.16	0.00	0.00	0.00
1,700.00	30.11	275.462	1,627.74	33.98	-355.34	-267.99	0.00	0.00	0.00
1,750.00	30.11	275.462	1,670.99	36.36	-380.31	-286.82	0.00	0.00	0.00
1,773.99	30.11	275.462	1,691.74	37.51	-392.29	-295.86	0.00	0.00	0.00
Pictured Clif									
1,800.00	30.11	275.462	1,714.24	38.75	-405.29	-305.66	0.00	0.00	0.00
1,850.00	30.11	275.462	1,757.49	41.14	-430.26	-324.49	0.00	0.00	0.00
1,900.00	30.11	275.462	1,800.74	43.53	-455.23	-343.32	0.00	0.00	0.00



Database: DT_Mar1724_v17
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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

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)
1,950.00 1,953.50	30.11 30.11	275.462 275.462	1,844.00 1,847.02	45.91 46.08	-480.20 -481.95	-362.16 -363.47	0.00 0.00	0.00 0.00	0.00 0.00
2,000.00 2,050.00		275.462 275.462	1,887.25 1,930.50	48.30 50.69	-505.17 -530.14	-380.99 -399.82	0.00 0.00	0.00 0.00	0.00 0.00
2,100.00 2,150.00 2,200.00 2,243.03	30.11	275.462 275.462 275.462 275.462	1,973.75 2,017.00 2,060.25 2,097.48	53.08 55.46 57.85 59.91	-555.12 -580.09 -605.06 -626.55	-418.65 -437.49 -456.32 -472.53	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Chacra_A 2,250.00	30.11	275.462	2,103.51	60.24	-630.03	-475.15	0.00	0.00	0.00
2,300.00 2,350.00 2,400.00 2,450.00 2,500.00	30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462	2,146.76 2,190.01 2,233.26 2,276.51 2,319.77	62.63 65.01 67.40 69.79 72.18	-655.00 -679.97 -704.95 -729.92 -754.89	-493.99 -512.82 -531.65 -550.48 -569.32	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
2,550.00 2,600.00 2,650.00	30.11 30.11 30.11	275.462 275.462 275.462	2,363.02 2,406.27 2,449.52	74.57 76.95 79.34	-779.86 -804.83 -829.80	-588.15 -606.98 -625.82 -644.65	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
2,700.00 2,750.00		275.462 275.462	2,492.77 2,536.02	81.73 84.12	-854.77 -879.75	-644.65 -663.48	0.00 0.00	0.00 0.00	0.00 0.00
2,800.00 2,850.00 2,900.00 2,950.00 3,000.00	30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462	2,579.28 2,622.53 2,665.78 2,709.03 2,752.28	86.50 88.89 91.28 93.67 96.05	-904.72 -929.69 -954.66 -979.63 -1,004.60	-682.31 -701.15 -719.98 -738.81 -757.65	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
3,050.00 3,100.00 3,150.00	30.11 30.11	275.462 275.462 275.462	2,795.54 2,838.79 2,882.04	98.44 100.83 103.22	-1,029.58 -1,054.55 -1,079.52	-776.48 -795.31 -814.15	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
3,200.00 3,250.00		275.462 275.462	2,925.29 2,968.54	105.60 107.99	-1,104.49 -1,129.46	-832.98 -851.81	0.00 0.00	0.00 0.00	0.00 0.00
3,300.00 3,350.00 3,400.00 3,450.00 3,499.60	30.11 30.11	275.462 275.462 275.462 275.462 275.462	3,011.79 3,055.05 3,098.30 3,141.55 3,184.46	110.38 112.77 115.16 117.54 119.91	-1,154.43 -1,179.40 -1,204.38 -1,229.35 -1,254.12	-870.64 -889.48 -908.31 -927.14 -945.83	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
Cliff House	_Basal								
3,500.00 3,545.93		275.462 275.462	3,184.80 3,224.53	119.93 122.12	-1,254.32 -1,277.26	-945.98 -963.27	0.00 0.00	0.00 0.00	0.00 0.00
Menefee 3,550.00 3,600.00 3,650.00	30.11	275.462 275.462	3,228.05 3,271.31	122.32 124.71	-1,279.29 -1,304.26	-964.81 -983.64	0.00	0.00 0.00	0.00 0.00
3,700.00 3,750.00 3,800.00	30.11 30.11	275.462 275.462 275.462	3,314.56 3,357.81 3,401.06 3,444.31	127.09 129.48 131.87 134.26	-1,329.23 -1,354.21 -1,379.18 -1,404.15	-1,002.47 -1,021.31 -1,040.14 -1,058.97	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
3,850.00 3,900.00	30.11 30.11	275.462 275.462 275.462	3,487.56 3,530.82	136.64 139.03	-1,429.12 -1,454.09	-1,077.81 -1,096.64	0.00 0.00 0.00	0.00 0.00	0.00 0.00
3,950.00 4,000.00 4,050.00	30.11 30.11	275.462 275.462 275.462	3,574.07 3,617.32 3,660.57	141.42 143.81 146.19	-1,479.06 -1,504.04 -1,529.01	-1,115.47 -1,134.30 -1,153.14	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
4,100.00 4,150.00		275.462 275.462	3,703.82 3,747.08	148.58 150.97	-1,553.98 -1,578.95	-1,171.97 -1,190.80	0.00 0.00	0.00 0.00	0.00 0.00



Database: DT_Mar1724_v17
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: rev3

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Grid

Measured Depth (ft) 4,200.00 4,250.00 4,300.00 4,350.00 4,400.00 4,450.00 4,507.18 Point Lookout 4,550.00 4,600.00 4,650.00 4,750.00 4,750.00 4,750.00 4,750.00 4,750.00 4,750.00 4,750.00 4,750.00 4,750.00 4,750.00 4,750.00 4,750.00 4,750.00 4,750.00 4,750.00 4,750.00 4,850.00 4,850.00 4,960.69 Begin 10°/100' d0	30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11	Azimuth (°) 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462	Vertical Depth (ft) 3,790.33 3,833.58 3,876.83 3,920.08 3,963.33 4,006.59 4,049.84 4,056.05 4,093.09 4,136.34 4,179.59 4,222.85 4,266.10 4,266.43 4,309.35 4,352.60	+N/-S (ft) 153.36 155.74 158.13 160.52 162.91 165.30 167.68 168.03 170.07 172.46 174.85 177.23 179.62 179.64	+E/-W (ft) -1,603.92 -1,628.89 -1,653.86 -1,678.84 -1,703.81 -1,728.78 -1,753.75 -1,757.34 -1,778.72 -1,803.69 -1,828.67 -1,878.61 -1,878.80 -1,903.58	Vertical Section (ft) -1,209.64 -1,228.47 -1,247.30 -1,266.14 -1,284.97 -1,303.80 -1,322.63 -1,325.34 -1,341.47 -1,360.30 -1,379.13 -1,397.97 -1,416.80 -1,416.94	Dogleg Rate (°/100ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Build Rate (°/100ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Turn Rate (°/100ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Depth (ft) 4,200.00 4,250.00 4,350.00 4,350.00 4,400.00 4,450.00 4,507.18 Point Lookout 4,550.00 4,600.00 4,670.00 4,750.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462	Depth (ft) 3,790.33 3,833.58 3,876.83 3,920.08 3,963.33 4,006.59 4,049.84 4,056.05 4,093.09 4,136.34 4,179.59 4,222.85 4,266.10 4,266.43 4,309.35	(ft) 153.36 155.74 158.13 160.52 162.91 165.30 167.68 168.03 170.07 172.46 174.85 177.23 179.62 179.64	(ft) -1,603.92 -1,628.89 -1,653.86 -1,678.84 -1,703.81 -1,728.78 -1,757.34 -1,778.72 -1,803.69 -1,828.67 -1,878.61 -1,878.80	Section (ft) -1,209.64 -1,228.47 -1,247.30 -1,266.14 -1,284.97 -1,303.80 -1,322.63 -1,325.34 -1,341.47 -1,360.30 -1,379.13 -1,397.97 -1,416.80	Rate (°/100ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Rate (°/100ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Rate (°/100ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
4,250.00 4,300.00 4,350.00 4,400.00 4,450.00 4,507.18 Point Lookout 4,550.00 4,600.00 4,750.00 4,750.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.00	30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462	3,833.58 3,876.83 3,920.08 3,963.33 4,006.59 4,049.84 4,056.05 4,093.09 4,136.34 4,179.59 4,222.85 4,266.10 4,266.43	155.74 158.13 160.52 162.91 165.30 167.68 168.03 170.07 172.46 174.85 177.23 179.62 179.64	-1,628.89 -1,653.86 -1,678.84 -1,703.81 -1,728.78 -1,753.75 -1,757.34 -1,778.72 -1,803.69 -1,828.67 -1,853.64 -1,878.80	-1,228.47 -1,247.30 -1,266.14 -1,284.97 -1,303.80 -1,322.63 -1,325.34 -1,341.47 -1,360.30 -1,379.13 -1,397.97 -1,416.80	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
4,300.00 4,350.00 4,450.00 4,450.00 4,500.00 4,507.18 Point Lookout 4,550.00 4,600.00 4,750.00 4,750.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462	3,876.83 3,920.08 3,963.33 4,006.59 4,049.84 4,056.05 4,093.09 4,136.34 4,179.59 4,222.85 4,266.10 4,266.43	158.13 160.52 162.91 165.30 167.68 168.03 170.07 172.46 174.85 177.23 179.62 179.64	-1,653.86 -1,678.84 -1,703.81 -1,728.78 -1,753.75 -1,757.34 -1,778.72 -1,803.69 -1,828.67 -1,853.64 -1,878.80	-1,247.30 -1,266.14 -1,284.97 -1,303.80 -1,322.63 -1,325.34 -1,341.47 -1,360.30 -1,379.13 -1,397.97 -1,416.80	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
4,350.00 4,400.00 4,450.00 4,500.00 4,507.18 Point Lookout 4,550.00 4,600.00 4,650.00 4,700.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462	3,920.08 3,963.33 4,006.59 4,049.84 4,056.05 4,093.09 4,136.34 4,179.59 4,222.85 4,266.10 4,266.43	160.52 162.91 165.30 167.68 168.03 170.07 172.46 174.85 177.23 179.62 179.64	-1,678.84 -1,703.81 -1,728.78 -1,753.75 -1,757.34 -1,778.72 -1,803.69 -1,828.67 -1,853.64 -1,878.80	-1,266.14 -1,284.97 -1,303.80 -1,322.63 -1,325.34 -1,341.47 -1,360.30 -1,379.13 -1,397.97 -1,416.80	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
4,400.00 4,450.00 4,500.00 4,507.18 Point Lookout 4,550.00 4,600.00 4,650.00 4,700.00 4,750.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462	3,963.33 4,006.59 4,049.84 4,056.05 4,093.09 4,136.34 4,179.59 4,222.85 4,266.10 4,266.43 4,309.35	162.91 165.30 167.68 168.03 170.07 172.46 174.85 177.23 179.62 179.64	-1,703.81 -1,728.78 -1,753.75 -1,757.34 -1,778.72 -1,803.69 -1,828.67 -1,853.64 -1,878.61 -1,878.80	-1,284.97 -1,303.80 -1,322.63 -1,325.34 -1,341.47 -1,360.30 -1,379.13 -1,397.97 -1,416.80	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
4,450.00 4,500.00 4,507.18 Point Lookout 4,550.00 4,600.00 4,650.00 4,750.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462	4,006.59 4,049.84 4,056.05 4,093.09 4,136.34 4,179.59 4,222.85 4,266.10 4,266.43 4,309.35	165.30 167.68 168.03 170.07 172.46 174.85 177.23 179.62 179.64	-1,728.78 -1,753.75 -1,757.34 -1,778.72 -1,803.69 -1,828.67 -1,853.64 -1,878.61 -1,878.80	-1,303.80 -1,322.63 -1,325.34 -1,341.47 -1,360.30 -1,379.13 -1,397.97 -1,416.80	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
4,500.00 4,507.18 Point Lookout 4,550.00 4,600.00 4,650.00 4,700.00 4,750.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462	4,049.84 4,056.05 4,093.09 4,136.34 4,179.59 4,222.85 4,266.10 4,266.43 4,309.35	167.68 168.03 170.07 172.46 174.85 177.23 179.62 179.64	-1,753.75 -1,757.34 -1,778.72 -1,803.69 -1,828.67 -1,853.64 -1,878.61 -1,878.80	-1,322.63 -1,325.34 -1,341.47 -1,360.30 -1,379.13 -1,397.97 -1,416.80	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00
4,507.18 Point Lookout 4,550.00 4,600.00 4,650.00 4,700.00 4,750.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462	4,056.05 4,093.09 4,136.34 4,179.59 4,222.85 4,266.10 4,266.43 4,309.35	170.07 172.46 174.85 177.23 179.62 179.64	-1,757.34 -1,778.72 -1,803.69 -1,828.67 -1,853.64 -1,878.61 -1,878.80	-1,325.34 -1,341.47 -1,360.30 -1,379.13 -1,397.97 -1,416.80	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
4,507.18 Point Lookout 4,550.00 4,600.00 4,650.00 4,700.00 4,750.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462	4,056.05 4,093.09 4,136.34 4,179.59 4,222.85 4,266.10 4,266.43 4,309.35	170.07 172.46 174.85 177.23 179.62 179.64	-1,757.34 -1,778.72 -1,803.69 -1,828.67 -1,853.64 -1,878.61 -1,878.80	-1,325.34 -1,341.47 -1,360.30 -1,379.13 -1,397.97 -1,416.80	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
Point Lookout 4,550.00 4,600.00 4,650.00 4,700.00 4,750.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462 275.462 275.462 275.462	4,093.09 4,136.34 4,179.59 4,222.85 4,266.10 4,266.43 4,309.35	170.07 172.46 174.85 177.23 179.62 179.64	-1,778.72 -1,803.69 -1,828.67 -1,853.64 -1,878.61 -1,878.80	-1,341.47 -1,360.30 -1,379.13 -1,397.97 -1,416.80	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
4,550.00 4,600.00 4,650.00 4,700.00 4,750.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462 275.462	4,136.34 4,179.59 4,222.85 4,266.10 4,266.43 4,309.35	172.46 174.85 177.23 179.62 179.64	-1,803.69 -1,828.67 -1,853.64 -1,878.61 -1,878.80	-1,360.30 -1,379.13 -1,397.97 -1,416.80	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
4,600.00 4,650.00 4,700.00 4,750.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462 275.462	4,136.34 4,179.59 4,222.85 4,266.10 4,266.43 4,309.35	172.46 174.85 177.23 179.62 179.64	-1,803.69 -1,828.67 -1,853.64 -1,878.61 -1,878.80	-1,360.30 -1,379.13 -1,397.97 -1,416.80	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
4,650.00 4,700.00 4,750.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462	4,179.59 4,222.85 4,266.10 4,266.43 4,309.35	174.85 177.23 179.62 179.64	-1,828.67 -1,853.64 -1,878.61 -1,878.80	-1,379.13 -1,397.97 -1,416.80	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
4,700.00 4,750.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462 275.462	4,222.85 4,266.10 4,266.43 4,309.35	177.23 179.62 179.64	-1,853.64 -1,878.61 -1,878.80	-1,397.97 -1,416.80	0.00 0.00	0.00 0.00	0.00 0.00
4,750.00 4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462 275.462	4,266.10 4,266.43 4,309.35	179.62 179.64	-1,878.61 -1,878.80	-1,416.80	0.00	0.00	0.00
4,750.38 Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11 30.11	275.462 275.462 275.462	4,266.43 4,309.35	179.64	-1,878.80				
Mancos 4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11 30.11	275.462 275.462	4,309.35			-1,416.94	0.00	0.00	0.00
4,800.00 4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11	275.462		182.01	1 002 50				
4,850.00 4,900.00 4,950.00 4,960.69	30.11 30.11 30.11	275.462		182.01	1 002 50				
4,900.00 4,950.00 4,960.69	30.11 30.11		4,352.60		-1,503.36	-1,435.63	0.00	0.00	0.00
4,900.00 4,950.00 4,960.69	30.11 30.11		4,33∠.60	104 40	1 000 55	1 454 46	0.00	0.00	0.00
4,950.00 4,960.69	30.11	2/5.462		184.40	-1,928.55	-1,454.46	0.00	0.00	0.00
4,960.69		075 400	4,395.85	186.78	-1,953.52	-1,473.30	0.00	0.00	0.00
	3N 11	275.462	4,439.11	189.17	-1,978.49	-1,492.13	0.00	0.00	0.00
Begin 10°/100' d		275.462	4,448.35	189.68	-1,983.83	-1,496.16	0.00	0.00	0.00
•	•								
5,000.00	26.40	272.751	4,482.97	191.04	-2,002.39	-1,509.85	10.00	-9.45	-6.90
5,050.00	21.77	268.086	4,528.61	191.26	-2,022.77	-1,523.96	10.00	-9.25	-9.33
5,100.00	17.34	261.117	4,575.72	189.80	-2,039.40	-1,534.28	10.00	-8.86	-13.94
5,130.41	14.82	254.968	4,604.94	188.09	-2,047.64	-1,538.67	10.00	-8.30	-20.22
MNCS_A	11.02	201.000	1,001.01	100.00	2,017.01	1,000.07	10.00	0.00	20.22
5,150.00	13.30	249.838	4,623.95	186.67	-2,052.17	-1,540.74	10.00	-7.73	-26.18
5,200.00	10.14	230.506	4,672.92	181.88	-2,060.98	-1,543.27	10.00	-6.32	-38.66
5,232.50	9.02	212.076	4,704.97	177.91	-2,064.54	-1,542.81	10.00	-3.46	-56.71
MNCS_B									
5,250.00	8.85	200.835	4,722.26	175.48	-2,065.74	-1,541.87	10.00	-0.94	-64.22
5,300.00	10.17	171.261	4,771.60	167.52	-2,066.44	-1,536.54	10.00	2.64	-59.15
5,320.70	11.33	162.044	4,791.94	163.78	-2,065.54	-1,533.20	10.00	5.60	-44.54
MNCS_C			,		,	,			
5,350.00	13.35	152.056	4,820.57	158.05	-2,063.06	-1,527.33	10.00	6.89	-34.08
5,366.83	14.64	147.614	4,836.90	154.54	-2,061.01	-1,523.36	10.00	7.71	-26.38
MNCS_Cms									
5,400.00	17.39	140.849	4,868.78	147.15	-2,055.64	-1,514.30	10.00	8.28	-20.40
5,450.00	21.83	133.918	4,915.87	134.90	-2,044.22	-1,497.55	10.00	8.87	-13.86
5,484.45	25.00	130.545	4,947.48	125.73	-2,034.07	-1,483.92	10.00	9.22	-9.79
Begin 8°/100' bu	ıild								
5,500.00	26.24	130.545	4,961.50	121.36	-2,028.96	-1,477.23	8.00	8.00	0.00
5,500.24	26.24	130.545	4,961.72	121.29	-2,028.88	-1,477.12	0.00	0.00	0.00
	20.24	130.343	4,301.72	121.23	-2,020.00	-1,4/1.12	0.00	0.00	0.00
MNCS_D	20.04	120 545	E 005 54	405.00	2.040.00	1 450 74	0.04	0.04	0.00
5,550.00	30.24	130.545	5,005.54	105.98	-2,010.98	-1,453.71	8.04	8.04	0.00
5,600.00	34.24	130.545	5,047.82	88.64	-1,990.71	-1,427.20	8.00	8.00	0.00
5,631.50	36.76	130.545	5,073.46	76.75	-1,976.82	-1,409.02	8.00	8.00	0.00
MNCS_E									
5,634.45	37.00	130.545	5,075.82	75.60	-1,975.47	-1,407.26	8.00	8.00	0.00
Begin 10°/100' b	uild								
5 GEO 00	20 56	120 545	E 000 11	60 44	1.069.00	1 207 70	10.00	10.00	0.00
5,650.00 5,700.00	38.56 43.56	130.545 130.545	5,088.11 5,125.81	69.41 48.07	-1,968.23 -1,943.28	-1,397.79 -1,365.16	10.00 10.00	10.00 10.00	0.00 0.00



Database: DT_Mar1724_v17
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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Grid

ın:	rev3								
nned 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)
5,702.05	43.76	130.545	5,127.28	47.15	-1,942.21	-1,363.75	10.00	10.00	0.00
MNCS_F									
5,750.00 5,800.00		130.545 130.545	5,160.49 5,191.91	24.67 -0.60	-1,915.93 -1,886.39	-1,329.38 -1,290.74	10.00 10.00	10.00 10.00	0.00 0.00
5,815.51	55.11	130.545	5,200.95	-8.79	-1,876.82	-1,278.21	10.00	10.00	0.00
MNCS_G									
5,850.00		130.545	5,219.82	-27.55	-1,854.88	-1,249.52	10.00	10.00	0.00
5,900.00		130.545	5,244.01	-55.99	-1,821.65	-1,206.04	10.00	10.00	0.00
5,939.93	67.55	130.545	5,260.54	-79.61	-1,794.03	-1,169.91	10.00	10.00	0.00
MNCS_H									
5,950.00	68.56	130.545	5,264.30	-85.68	-1,786.93	-1,160.63	10.00	10.00	0.00
5,964.45	70.00	130.545	5,269.41	-94.46	-1,776.66	-1,147.20	10.00	10.00	0.00
,	5964.45 MD 5269.4					,			
6,000.00		130.545	5,280.53	-116.41	-1,751.01	-1,113.64	10.00	10.00	0.00
6,017.62		130.545	5,285.25	-127.45	-1,738.11	-1,096.76	10.00	10.00	0.00
MNCS_I									
6,050.00	78.56	130.545	5,292.57	-147.95	-1,714.14	-1,065.42	10.00	10.00	0.00
6,064.45		130.545	5,295.26	-157.18	-1,703.35	-1,051.30	10.00	10.00	0.00
,	diate Casing		•						
6,100.00	83.56	130.545	5,300.34	-180.04	-1,676.62	-1,016.33	10.00	10.00	0.00
6,150.00		130.545	5,303.78	-212.46	-1,638.73	-966.77	10.00	10.00	0.00
6,166.29		130.545	5,303.96	-223.05	-1,626.35	-950.58	10.00	10.00	0.00
Begin 90.1		100.010	0,000.00	220.00	1,020.00	000.00	10.00	10.00	0.00
6,200.00		130.545	5,303.85	-244.96	-1,600.73	-917.07	0.00	0.00	0.00
6,250.00		130.545	5,303.69	-277.46	-1,562.74	-867.36	0.00	0.00	0.00
6,300.00		130.545	5,303.53	-309.96	-1,524.74	-817.66	0.00	0.00	0.00
6,350.00		130.545	5,303.37	-342.46	-1,486.75	-767.96	0.00	0.00	0.00
6,400.00		130.545	5,303.21	-374.97	-1,448.75	-718.26	0.00	0.00	0.00
6,450.00		130.545 130.545	5,303.05 5,302.89	-407.47 -439.97	-1,410.76 -1,372.77	-668.56 -618.86	0.00 0.00	0.00 0.00	0.00 0.00
6,500.00									
6,550.00		130.545	5,302.73	-472.47	-1,334.77	-569.15	0.00	0.00	0.00
6,600.00		130.545	5,302.57	-504.97	-1,296.78	-519.45	0.00	0.00	0.00
6,650.00		130.545	5,302.40	-537.48	-1,258.78	-469.75	0.00	0.00	0.00
6,700.00		130.545	5,302.24	-569.98	-1,220.79	-420.05	0.00	0.00	0.00
6,750.00	90.18	130.545	5,302.08	-602.48	-1,182.79	-370.35	0.00	0.00	0.00
6,800.00	90.18	130.545	5,301.92	-634.98	-1,144.80	-320.65	0.00	0.00	0.00
6,850.00		130.545	5,301.76	-667.48	-1,106.80	-270.95	0.00	0.00	0.00
6,900.00		130.545	5,301.60	-699.98	-1,068.81	-221.24	0.00	0.00	0.00
6,950.00		130.545	5,301.44	-732.49	-1,030.81	-171.54	0.00	0.00	0.00
7,000.00	90.18	130.545	5,301.28	-764.99	-992.82	-121.84	0.00	0.00	0.00
7,050.00	90.18	130.545	5,301.12	-797.49	-954.82	-72.14	0.00	0.00	0.00
7,100.00	90.18	130.545	5,300.96	-829.99	-916.83	-22.44	0.00	0.00	0.00
7,150.00		130.545	5,300.80	-862.49	-878.83	27.26	0.00	0.00	0.00
7,200.00		130.545	5,300.64	-895.00	-840.84	76.96	0.00	0.00	0.00
7,250.00	90.18	130.545	5,300.48	-927.50	-802.84	126.67	0.00	0.00	0.00
7,300.00	90.18	130.545	5,300.31	-960.00	-764.85	176.37	0.00	0.00	0.00
7,350.00		130.545	5,300.15	-992.50	-726.85	226.07	0.00	0.00	0.00
7,400.00		130.545	5,299.99	-1,025.00	-688.86	275.77	0.00	0.00	0.00
7,450.00		130.545	5,299.83	-1,057.50	-650.86	325.47	0.00	0.00	0.00
7,500.00	90.18	130.545	5,299.67	-1,090.01	-612.87	375.17	0.00	0.00	0.00
7,550.00	90.18	130.545	5,299.51	-1,122.51	-574.87	424.87	0.00	0.00	0.00
7,600.00		130.545	5,299.35	-1,155.01	-536.88	474.58	0.00	0.00	0.00
7,650.00		130.545	5,299.19	-1,187.51	-498.88	524.28	0.00	0.00	0.00



Database: DT_Mar1724_v17
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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Grid

esign:	rev3								
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)
7,700.00	90.18	130.545	5,299.03	-1,220.01	-460.89	573.98	0.00	0.00	0.00
7,750.00	90.18	130.545	5,298.87	-1,252.51	-422.89	623.68	0.00	0.00	0.00
7,800.00	90.18	130.545	5,298.71	-1,285.02	-384.90	673.38	0.00	0.00	0.00
7,850.00	90.18	130.545	5,298.55	-1,317.52	-346.90	723.08	0.00	0.00	0.00
7,900.00	90.18	130.545	5,298.39	-1,350.02	-308.91	772.78	0.00	0.00	0.00
7,950.00	90.18	130.545	5,298.22	-1,382.52	-270.91	822.49	0.00	0.00	0.00
8,000.00	90.18	130.545	5,298.06	-1,415.02	-232.92	872.19	0.00	0.00	0.00
8,050.00	90.18	130.545	5,297.90	-1,447.53	-194.93	921.89	0.00	0.00	0.00
8,100.00	90.18	130.545	5,297.74	-1,480.03	-156.93	971.59	0.00	0.00	0.00
8,150.00	90.18	130.545	5,297.58	-1,512.53	-118.94	1,021.29	0.00	0.00	0.00
8,200.00	90.18	130.545	5,297.42	-1,545.03	-80.94	1,070.99	0.00	0.00	0.00
8,250.00	90.18	130.545	5,297.26	-1,577.53	-42.95	1,120.69	0.00	0.00	0.00
8,300.00	90.18	130.545	5,297.10	-1,610.03	-4.95	1,170.40	0.00	0.00	0.00
8,350.00	90.18	130.545	5,296.94	-1,642.54	33.04	1,220.10	0.00	0.00	0.00
8,400.00	90.18	130.545	5,296.78	-1,675.04	71.04	1,269.80	0.00	0.00	0.00
8,450.00	90.18	130.545	5,296.62	-1,707.54	109.03	1,319.50	0.00	0.00	0.00
8,500.00	90.18	130.545	5,296.46	-1,740.04	147.03	1,369.20	0.00	0.00	0.00
8,550.00	90.18	130.545	5,296.29	-1,772.54	185.02	1,418.90	0.00	0.00	0.00
8,600.00	90.18	130.545	5,296.13	-1,805.05	223.02	1,468.60	0.00	0.00	0.00
8,650.00	90.18	130.545	5,295.97	-1,837.55	261.01	1,518.31	0.00	0.00	0.00
8,700.00	90.18	130.545	5,295.81	-1,870.05	299.01	1,568.01	0.00	0.00	0.00
8,750.00	90.18	130.545	5,295.65	-1,902.55	337.00	1,617.71	0.00	0.00	0.00
8,800.00	90.18	130.545	5,295.49	-1,935.05	375.00	1,667.41	0.00	0.00	0.00
8,850.00	90.18	130.545	5,295.33	-1,967.55	412.99	1,717.11	0.00	0.00	0.00
8,900.00	90.18	130.545	5,295.17	-2,000.06	450.99	1,766.81	0.00	0.00	0.00
8,950.00	90.18	130.545	5,295.01	-2,032.56	488.98	1,816.51	0.00	0.00	0.00
9,000.00	90.18	130.545	5,294.85	-2,065.06	526.98	1,866.22	0.00	0.00	0.00
9,050.00	90.18	130.545	5,294.69	-2,097.56	564.97	1,915.92	0.00	0.00	0.00
9,100.00	90.18	130.545	5,294.53	-2,130.06	602.97	1,965.62	0.00	0.00	0.00
9,150.00	90.18	130.545	5,294.37	-2,162.56	640.96	2,015.32	0.00	0.00	0.00
9,200.00	90.18	130.545	5,294.20	-2,195.07	678.96	2,065.02	0.00	0.00	0.00
9,250.00	90.18	130.545	5,294.04	-2,227.57	716.95	2,114.72	0.00	0.00	0.00
9,300.00	90.18	130.545	5,293.88	-2,260.07	754.95	2,164.42	0.00	0.00	0.00
9,350.00	90.18	130.545	5,293.72	-2,292.57	792.94	2,214.13	0.00	0.00	0.00
9,400.00	90.18	130.545	5,293.56	-2,325.07	830.94	2,263.83	0.00	0.00	0.00
9,450.00	90.18	130.545	5,293.40	-2,357.58	868.93	2,313.53	0.00	0.00	0.00
9,500.00	90.18	130.545	5,293.24	-2,390.08	906.93	2,363.23	0.00	0.00	0.00
9,550.00	90.18	130.545	5,293.08	-2,422.58	944.92	2,412.93	0.00	0.00	0.00
9,600.00	90.18	130.545	5,292.92	-2,455.08	982.91	2,462.63	0.00	0.00	0.00
9,650.00	90.18	130.545	5,292.76	-2,487.58	1,020.91	2,512.33	0.00	0.00	0.00
9,700.00	90.18	130.545	5,292.60	-2,520.08	1,058.90	2,562.04	0.00	0.00	0.00
9,750.00	90.18	130.545	5,292.44	-2,552.59	1,096.90	2,611.74	0.00	0.00	0.00
9,800.00	90.18	130.545	5,292.27	-2,585.09	1,134.89	2,661.44	0.00	0.00	0.00
9,850.00	90.18	130.545	5,292.11	-2,617.59	1,172.89	2,711.14	0.00	0.00	0.00
9,900.00	90.18	130.545	5,291.95	-2,650.09	1,210.88	2,760.84	0.00	0.00	0.00
9,950.00	90.18	130.545	5,291.79	-2,682.59	1,248.88	2,810.54	0.00	0.00	0.00
10,000.00	90.18	130.545	5,291.63	-2,715.10	1,286.87	2,860.25	0.00	0.00	0.00
10,050.00	90.18	130.545	5,291.47	-2,747.60	1,324.87	2,909.95	0.00	0.00	0.00
10,100.00	90.18	130.545	5,291.31	-2,780.10	1,362.86	2,959.65	0.00	0.00	0.00
10,150.00	90.18	130.545	5,291.15	-2,812.60	1,400.86	3,009.35	0.00	0.00	0.00
10,200.00	90.18	130.545	5,290.99	-2,845.10	1,438.85	3,059.05	0.00	0.00	0.00
10,250.00	90.18	130.545	5,290.83	-2,877.60	1,476.85	3,108.75	0.00	0.00	0.00
10,300.00	90.18	130.545	5,290.67	-2,910.11	1,514.84	3,158.45	0.00	0.00	0.00
10,350.00	90.18	130.545	5,290.51	-2,942.61	1,552.84	3,208.16	0.00	0.00	0.00



Database: DT_Mar1724_v17
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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Grid

Design.	1643								
Planned Survey									
Manageral			Vertical			Vertical	Doglass	Duild	T
Measured						Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
10,400.00	90.18	130.545	5,290.35	-2,975.11	1,590.83	3,257.86	0.00	0.00	0.00
10,450.00	90.18	130.545	5,290.18	-3,007.61	1,628.83	3,307.56	0.00	0.00	0.00
10,500.00	90.18	130.545	5,290.02	-3,040.11	1,666.82	3,357.26	0.00	0.00	0.00
40.550.00	20.40	100 515	5 000 00	0.070.00	4 70 4 00	0.400.00	0.00	0.00	0.00
10,550.00	90.18	130.545	5,289.86	-3,072.62	1,704.82	3,406.96	0.00	0.00	0.00
10,600.00	90.18	130.545	5,289.70	-3,105.12	1,742.81	3,456.66	0.00	0.00	0.00
10,650.00	90.18	130.545	5,289.54	-3,137.62	1,780.81	3,506.36	0.00	0.00	0.00
10,700.00	90.18	130.545	5,289.38	-3,170.12	1,818.80	3,556.07	0.00	0.00	0.00
10,750.00	90.18	130.545	5,289.22	-3,202.62	1,856.80	3,605.77	0.00	0.00	0.00
10,800.00	90.18	130.545	5,289.06	-3,235.12	1,894.79	3,655.47	0.00	0.00	0.00
10,850.00	90.18	130.545	5,288.90	-3,267.63	1,932.79	3,705.17	0.00	0.00	0.00
10,900.00	90.18	130.545	5,288.74	-3,300.13	1,970.78	3,754.87	0.00	0.00	0.00
10,950.00	90.18	130.545	5,288.58	-3,332.63	2,008.78	3,804.57	0.00	0.00	0.00
11,000.00	90.18	130.545	5,288.42	-3,365.13	2,046.77	3,854.27	0.00	0.00	0.00
11,050.00	90.18	130.545	5,288.26	-3,397.63	2,084.77	3,903.98	0.00	0.00	0.00
11,100.00	90.18	130.545	5,288.09	-3,430.13	2,122.76	3,953.68	0.00	0.00	0.00
11,150.00	90.18	130.545	5,287.93	-3,462.64	2,160.75	4,003.38	0.00	0.00	0.00
11,200.00	90.18	130.545	5,287.77	-3,495.14	2,198.75	4,053.08	0.00	0.00	0.00
11,250.00	90.18	130.545	5,287.61	-3,527.64	2,236.74	4,102.78	0.00	0.00	0.00
				,					
11,300.00	90.18	130.545	5,287.45	-3,560.14	2,274.74	4,152.48	0.00	0.00	0.00
11,350.00	90.18	130.545	5,287.29	-3,592.64	2,312.73	4,202.18	0.00	0.00	0.00
11,400.00	90.18	130.545	5,287.13	-3,625.15	2,350.73	4,251.89	0.00	0.00	0.00
11,450.00	90.18	130.545	5,286.97	-3,657.65	2,388.72	4,301.59	0.00	0.00	0.00
11,500.00	90.18	130.545	5,286.81	-3,690.15	2,426.72	4,351.29	0.00	0.00	0.00
11,550.00	90.18	130.545	5,286.65	-3,722.65	2,464.71	4,400.99	0.00	0.00	0.00
11,600.00	90.18	130.545	5,286.49	-3,755.15	2,502.71	4,450.69	0.00	0.00	0.00
11,650.00	90.18	130.545	5,286.33	-3,787.65	2,540.70	4,500.39	0.00	0.00	0.00
11,700.00	90.18	130.545	5,286.16	-3,820.16	2,578.70	4,550.09	0.00	0.00	0.00
11,750.00	90.18	130.545	5,286.00	-3,852.66	2,616.69	4,599.80	0.00	0.00	0.00
11,800.00	90.18	130.545	5,285.84	-3,885.16	2,654.69	4,649.50	0.00	0.00	0.00
11,850.00	90.18	130.545	5,285.68	-3,917.66	2,692.68	4,699.20	0.00	0.00	0.00
11,900.00	90.18	130.545	5,285.52	-3,950.16	2,730.68	4,748.90	0.00	0.00	0.00
11,950.00	90.18	130.545	5,285.36	-3,982.67	2,768.67	4,798.60	0.00	0.00	0.00
12,000.00	90.18	130.545	5,285.20	-4,015.17	2,806.67	4,848.30	0.00	0.00	0.00
12,050.00	90.18	130.545	5,285.04	-4,047.67	2,844.66	4,898.00	0.00	0.00	0.00
12,100.00	90.18	130.545	5,284.88	-4,047.67 -4,080.17	2,882.66	4,090.00	0.00	0.00	0.00
12,150.00	90.18	130.545	5,284.72	-4,112.67	2,920.65	4,997.41	0.00	0.00	0.00
12,200.00	90.18	130.545	5,284.56	-4,145.17	2,958.65	5,047.11	0.00	0.00	0.00
12,250.00	90.18	130.545	5,284.40	-4,177.68	2,996.64	5,096.81	0.00	0.00	0.00
12,300.00	90.18	130.545	5,284.24	-4,210.18	3,034.64		0.00	0.00	0.00
12,350.00	90.18	130.545	5,284.07	-4,242.68	3,072.63	5,196.21	0.00	0.00	0.00
12,400.00	90.18	130.545	5,283.91	-4,275.18	3,110.63	5,245.91	0.00	0.00	0.00
12,450.00	90.18	130.545	5,283.75	-4,307.68	3,148.62	5,295.62	0.00	0.00	0.00
12,500.00	90.18	130.545	5,283.59	-4,340.19	3,186.62	5,345.32	0.00	0.00	0.00
12,550.00	90.18	130.545	5,283.43	-4,372.69	3,224.61	5,395.02	0.00	0.00	0.00
12,600.00	90.18	130.545	5,283.27	-4,405.19	3,262.61	5,444.72	0.00	0.00	0.00
12,650.00	90.18	130.545	5,283.11	-4,437.69	3,300.60	5,494.42	0.00	0.00	0.00
12,700.00	90.18	130.545	5,282.95	-4,470.19	3,338.59	5,544.12	0.00	0.00	0.00
12,750.00	90.18	130.545	5,282.79	-4,502.69	3,376.59	5,593.82	0.00	0.00	0.00
12,800.00	90.18	130.545	5,282.63	-4,535.20	3,414.58	5,643.53	0.00	0.00	0.00
12,850.00	90.18	130.545	5,282.47	-4,567.70	3,452.58	5,693.23	0.00	0.00	0.00
12,900.00	90.18	130.545	5,282.31	-4,600.20	3,490.57	5,742.93	0.00	0.00	0.00
12,950.00	90.18	130.545	5,282.15	-4,632.70	3,528.57	5,742.93	0.00	0.00	0.00
	90.18	130.545	5,282.15	-4,632.70 -4,665.20	3,528.57 3,566.56	5,792.63	0.00	0.00	0.00
13,000.00					מר ממר ב	:1.047.33	UUU	U UU	UUU
13,050.00	90.18	130.545	5,281.82	-4,697.70	3,604.56	5,892.03	0.00	0.00	0.00



Database: DT_Mar1724_v17
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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Grid

lanned Survey									
Manager			Mantinal			Mantinal	Danie -	D. Hal	T
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
13,100.00	90.18	130.545	5.281.66	-4,730.21	3.642.55	5,941.74	0.00	0.00	0.00
13,150.00	90.18	130.545	5,281.50	-4,762.71	3,680.55	5,991.44	0.00	0.00	0.00
13,200.00	90.18	130.545	5,281.34	-4,795.21	3,718.54	6,041.14	0.00	0.00	0.00
,			,		,		0.00		
13,250.00	90.18	130.545	5,281.18	-4,827.71	3,756.54	6,090.84	0.00	0.00	0.00
13,300.00	90.18	130.545	5,281.02	-4,860.21	3,794.53	6,140.54	0.00	0.00	0.00
13,350.00	90.18	130.545	5,280.86	-4,892.72	3,832.53	6,190.24	0.00	0.00	0.00
13,400.00	90.18	130.545	5,280.70	-4,925.22	3,870.52	6,239.94	0.00	0.00	0.00
13,450.00	90.18	130.545	5,280.54	-4,957.72	3,908.52	6,289.65	0.00	0.00	0.00
13,500.00	90.18	130.545	5,280.38	-4,990.22	3,946.51	6,339.35	0.00	0.00	0.00
			,						
13,550.00	90.18	130.545	5,280.22	-5,022.72	3,984.51	6,389.05	0.00	0.00	0.00
13,600.00	90.18	130.545	5,280.05	-5,055.22	4,022.50	6,438.75	0.00	0.00	0.00
13,650.00	90.18	130.545	5,279.89	-5,087.73	4,060.50	6,488.45	0.00	0.00	0.00
13,700.00	90.18	130.545	5,279.73	-5,120.23	4,098.49	6,538.15	0.00	0.00	0.00
13,750.00	90.18	130.545	5,279.57	-5,152.73	4,136.49	6,587.85	0.00	0.00	0.00
					*				
13,800.00	90.18	130.545	5,279.41	-5,185.23	4,174.48	6,637.56	0.00	0.00	0.00
13,850.00	90.18	130.545	5,279.25	-5,217.73	4,212.48	6,687.26	0.00	0.00	0.00
13,900.00	90.18	130.545	5,279.09	-5,250.24	4,250.47	6,736.96	0.00	0.00	0.00
13,950.00	90.18	130.545	5,278.93	-5,282.74	4,288.47	6,786.66	0.00	0.00	0.00
14,000.00	90.18	130.545	5,278.77	-5,315.24	4,326.46	6,836.36	0.00	0.00	0.00
14.050.00	90.18	130.545	5,278.61	-5,347.74	4,364.46	6,886.06	0.00	0.00	0.00
,			,	,		,			
14,100.00	90.18	130.545	5,278.45	-5,380.24	4,402.45	6,935.76	0.00	0.00	0.00
14,150.00	90.18	130.545	5,278.29	-5,412.74	4,440.45	6,985.47	0.00	0.00	0.00
14,200.00	90.18	130.545	5,278.13	-5,445.25	4,478.44	7,035.17	0.00	0.00	0.00
14,250.00	90.18	130.545	5,277.96	-5,477.75	4,516.43	7,084.87	0.00	0.00	0.00
14,300.00	90.18	130.545	5,277.80	-5,510.25	4,554.43	7,134.57	0.00	0.00	0.00
14,350.00	90.18	130.545	5,277.64	-5,542.75	4,592.42	7,184.27	0.00	0.00	0.00
14,400.00	90.18	130.545	5,277.48	-5,575.25	4,630.42	7,233.97	0.00	0.00	0.00
		130.545	,				0.00		
14,450.00	90.18		5,277.32	-5,607.75	4,668.41	7,283.67		0.00	0.00
14,500.00	90.18	130.545	5,277.16	-5,640.26	4,706.41	7,333.38	0.00	0.00	0.00
14,550.00	90.18	130.545	5,277.00	-5,672.76	4,744.40	7,383.08	0.00	0.00	0.00
14,600.00	90.18	130.545	5,276.84	-5,705.26	4,782.40	7,432.78	0.00	0.00	0.00
14,650.00	90.18	130.545	5,276.68	-5,737.76	4,820.39	7,482.48	0.00	0.00	0.00
14,700.00	90.18	130.545	5,276.52	-5,770.26	4,858.39	7,532.18	0.00	0.00	0.00
14,750.00	90.18	130.545	5,276.36	-5,802.77	4,896.38	7,581.88	0.00	0.00	0.00
14,730.00	90.10	130.343	3,270.30	-3,002.77	4,090.30	7,301.00		0.00	0.00
14,800.00	90.18	130.545	5,276.20	-5,835.27	4,934.38	7,631.58	0.00	0.00	0.00
14,850.00	90.18	130.545	5,276.04	-5,867.77	4,972.37	7,681.29	0.00	0.00	0.00
14,900.00	90.18	130.545	5,275.87	-5,900.27	5,010.37	7,730.99	0.00	0.00	0.00
14,950.00	90.18	130.545	5,275.71	-5,932.77	5,048.36	7,780.69	0.00	0.00	0.00
15,000.00	90.18	130.545	5,275.55	-5,965.27	5,086.36	7,830.39	0.00	0.00	0.00
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15,050.00	90.18	130.545	5,275.39	-5,997.78	5,124.35	7,880.09	0.00	0.00	0.00
15,100.00	90.18	130.545	5,275.23	-6,030.28	5,162.35	7,929.79	0.00	0.00	0.00
15,150.00	90.18	130.545	5,275.07	-6,062.78	5,200.34	7,979.49	0.00	0.00	0.00
15,200.00	90.18	130.545	5,274.91	-6,095.28	5,238.34	8,029.20	0.00	0.00	0.00
15,250.00	90.18	130.545	5,274.75	-6,127.78	5,276.33	8,078.90	0.00	0.00	0.00
15,300.00	90.18	130.545	5,274.59	-6,160.29	5,314.33	8,128.60	0.00	0.00	0.00
15,350.00	90.18	130.545	5,274.43	-6,192.79	5,352.32	8,178.30	0.00	0.00	0.00
15,400.00	90.18	130.545	5,274.27	-6,225.29	5,390.32	8,228.00	0.00	0.00	0.00
15,450.00	90.18	130.545	5,274.11	-6,257.79	5,428.31	8,277.70	0.00	0.00	0.00
15,500.00	90.18	130.545	5,273.94	-6,290.29	5,466.31	8,327.40	0.00	0.00	0.00
15,550.00	90.18	130.545	5,273.78	-6,322.79	5,504.30	8,377.11	0.00	0.00	0.00
15,600.00	90.18	130.545	5,273.62	-6,355.30	5,542.30	8,426.81	0.00	0.00	0.00
15,650.00	90.18	130.545	5,273.46	-6,387.80	5,580.29	8,476.51	0.00	0.00	0.00
15,700.00	90.18	130.545	5,273.30	-6,420.30	5,618.29	8,526.21	0.00	0.00	0.00
10,100.00					5,656.28	8,575.91			



Database: DT_Mar1724_v17
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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Grid

nned 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)
15,800.00		130.545	5,272.98	-6,485.30	5,694.27	8,625.61	0.00	0.00	0.00
15,850.00		130.545	5,272.82	-6,517.81	5,732.27	8,675.31	0.00	0.00	0.00
15,900.00		130.545	5,272.66	-6,550.31	5,770.26	8,725.02	0.00	0.00	0.00
15,950.00		130.545	5,272.50	-6,582.81	5,808.26	8,774.72	0.00	0.00	0.00
16,000.00	90.18	130.545	5,272.34	-6,615.31	5,846.25	8,824.42	0.00	0.00	0.00
16,050.00	90.18	130.545	5,272.18	-6,647.81	5,884.25	8,874.12	0.00	0.00	0.00
16,100.00		130.545	5,272.02	-6,680.31	5,922.24	8,923.82	0.00	0.00	0.00
16,150.00		130.545	5,271.85	-6,712.82	5,960.24	8,973.52	0.00	0.00	0.00
16,200.00		130.545	5,271.69	-6,745.32	5,998.23	9,023.23	0.00	0.00	0.00
16,250.00	90.18	130.545	5,271.53	-6,777.82	6,036.23	9,072.93	0.00	0.00	0.00
16,300.00	90.18	130.545	5,271.37	-6,810.32	6,074.22	9,122.63	0.00	0.00	0.00
16,350.00	90.18	130.545	5,271.21	-6,842.82	6,112.22	9,172.33	0.00	0.00	0.00
16,400.00	90.18	130.545	5,271.05	-6,875.32	6,150.21	9,222.03	0.00	0.00	0.00
16,450.00	90.18	130.545	5,270.89	-6,907.83	6,188.21	9,271.73	0.00	0.00	0.00
16,500.00	90.18	130.545	5,270.73	-6,940.33	6,226.20	9,321.43	0.00	0.00	0.00
16,550.00	90.18	130.545	5,270.57	-6,972.83	6,264.20	9,371.14	0.00	0.00	0.00
16,600.00		130.545	5,270.41	-7,005.33	6,302.19	9,420.84	0.00	0.00	0.00
16,650.00		130.545	5,270.25	-7,037.83	6,340.19	9,470.54	0.00	0.00	0.00
16,700.00		130.545	5,270.09	-7,070.34	6,378.18	9,520.24	0.00	0.00	0.00
16,750.00		130.545	5,269.93	-7,102.84	6,416.18	9,569.94	0.00	0.00	0.00
16,800.00	90.18	130.545	5,269.76	-7,135.34	6,454.17	9,619.64	0.00	0.00	0.00
16,850.00		130.545	5.269.60	-7,167.84	6,492.17	9,669.34	0.00	0.00	0.00
16,900.00		130.545	5,269.44	-7,200.34	6,530.16	9,719.05	0.00	0.00	0.00
16,950.00		130.545	5,269.28	-7,232.84	6,568.16	9,768.75	0.00	0.00	0.00
17,000.00		130.545	5,269.12	-7,265.35	6,606.15	9,818.45	0.00	0.00	0.00
17,050.00	90.18	130.545	5,268.96	-7,297.85	6,644.15	9,868.15	0.00	0.00	0.00
17,100.00		130.545	5,268.80	-7,330.35	6,682.14	9,917.85	0.00	0.00	0.00
17,150.00		130.545	5,268.64	-7,362.85	6,720.14	9,967.55	0.00	0.00	0.00
17,200.00		130.545	5,268.48	-7,395.35	6,758.13	10,017.25	0.00	0.00	0.00
17,250.00		130.545	5,268.32	-7,427.86	6,796.13	10,066.96	0.00	0.00	0.00
17,300.00	90.18	130.545	5,268.16	-7,460.36	6,834.12	10,116.66	0.00	0.00	0.00
17,350.00		130.545	5,268.00	-7,492.86	6,872.11	10,166.36	0.00	0.00	0.00
17,400.00		130.545	5,267.83	-7,525.36	6,910.11	10,216.06	0.00	0.00	0.00
17,450.00		130.545	5,267.67	-7,557.86	6,948.10	10,265.76	0.00	0.00	0.00
17,500.00		130.545	5,267.51	-7,590.36	6,986.10	10,315.46	0.00	0.00	0.00
17,550.00		130.545	5,267.35	-7,622.87	7,024.09	10,365.16	0.00	0.00	0.00
17,600.00		130.545	5,267.35	-7,622.67 -7,655.37	7,024.09	10,365.16	0.00	0.00	0.00
17,650.00		130.545	5,267.19	-7,687.87	7,062.09	10,414.67	0.00	0.00	0.00
17,700.00		130.545	5,266.87	-7,720.37	7,100.08	10,404.37	0.00	0.00	0.00
17,750.00		130.545	5,266.71	-7,720.37 -7,752.87	7,136.06	10,514.27	0.00	0.00	0.00
17,800.00		130.545	5,266.55 5,266.39	-7,785.37 7,817.88	7,214.07	10,613.67	0.00	0.00	0.00
17,850.00 17,900.00		130.545 130.545	5,266.23	-7,817.88 -7,850.38	7,252.06 7,290.06	10,663.37 10,713.07	0.00 0.00	0.00 0.00	0.00 0.00
17,900.00		130.545	5,266.23 5,266.07	-7,850.38 -7,882.88	7,290.06	10,713.07	0.00	0.00	0.00
18,000.00		130.545	5,265.07	-7,002.00 -7,915.38	7,326.05 7,366.05	10,762.76	0.00	0.00	0.00
18,050.00		130.545	5,265.74	-7,947.88	7,404.04	10,862.18	0.00	0.00	0.00
18,100.00		130.545	5,265.58	-7,980.39	7,442.04	10,911.88	0.00	0.00	0.00
18,150.00		130.545	5,265.42	-8,012.89	7,480.03	10,961.58	0.00	0.00	0.00
18,200.00		130.545	5,265.26	-8,045.39	7,518.03	11,011.28	0.00	0.00	0.00
18,250.00		130.545	5,265.10	-8,077.89	7,556.02	11,060.98	0.00	0.00	0.00
18,300.00		130.545	5,264.94	-8,110.39	7,594.02	11,110.69	0.00	0.00	0.00
18,350.00		130.545	5,264.78	-8,142.89	7,632.01	11,160.39	0.00	0.00	0.00
18,400.00		130.545	5,264.62	-8,175.40	7,670.01	11,210.09	0.00	0.00	0.00
18,436.95	90.18	130.545	5,264.50	-8,199.42	7,698.09	11,246.82	0.00	0.00	0.00



DT_Mar1724_v17 Database: Company: Enduring Resources LLC

Sandoval County, New Mexico NAD83 NM C Project:

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

Wellbore: Original Hole Design: rev3

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Grid

Planned Survey			
Measured	Vertical	Vertical	Dogleg

N	leasured 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)	
I	PBHL/TD @	18436.95 MD 52	264.50 TVD								

Casing Points					
	Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
	348.50	348.50	9-5/8" Surface Casing	9-5/8	12-1/4
	6,064.45	5,295.26	7" Intermediate Casing	7	8-3/4

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,079.71	1,070.78	Ojo Alamo		-0.22	130.545
	1,201.68	1,185.90	Kirtland		-0.22	130.545
	1,387.94	1,356.14	Fruitland		-0.22	130.545
	1,773.99	1,691.74	Pictured Cliffs		-0.22	130.545
	1,953.50	1,847.02	Lewis		-0.22	130.545
	2,243.03	2,097.48	Chacra_A		-0.22	130.545
	3,499.60	3,184.46	Cliff House_Basal		-0.22	130.545
	3,545.93	3,224.53	Menefee		-0.22	130.545
	4,507.18	4,056.05	Point Lookout		-0.22	130.545
	4,750.38	4,266.43	Mancos		-0.22	130.545
	5,130.41	4,604.94	MNCS_A		-0.22	130.545
	5,232.50	4,704.97	MNCS_B		-0.22	130.545
	5,320.70	4,791.94	MNCS_C		-0.22	130.545
	5,366.83	4,836.90	MNCS_Cms		-0.22	130.545
	5,500.24	4,961.72	MNCS_D		-0.22	130.545
	5,631.50	5,073.46	MNCS_E		-0.22	130.545
	5,702.05	5,127.28	MNCS_F		-0.22	130.545
	5,815.51	5,200.95	MNCS_G		-0.22	130.545
	5,939.93	5,260.54	MNCS_H		-0.22	130.545
	6,017.62	5,285.25	MNCS_I		-0.22	130.545

Plan Annotations					
Measured	Vertical	Local Coor	dinates		
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
498.50	498.50	0.00	0.00	KOP Begin 3°/100' build	
1,502.27	1,456.69	24.53	-256.59	Begin 30.11° tangent	
4,960.69	4,448.35	189.68	-1,983.83	Begin 10°/100' drop build/turn	
5,484.45	4,947.48	125.73	-2,034.07	Begin 8°/100' build	
5,634.45	5,075.82	75.60	-1,975.47	Begin 10°/100' build	
5,964.45	5,269.41	-94.46	-1,776.66	70° inc @ 5964.45 MD 5269.41 TVD	
6,166.29	5,303.96	-223.05	-1,626.35	Begin 90.18° lateral	
18,436.95	5,264.50	-8,199.42	7,698.09	PBHL/TD @ 18436.95 MD 5264.50 TVD	



Database: DT_Mar1724_v17

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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Crid

Minimum Curvature

Project Sandoval County, New Mexico NAD83 NM C

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

System Datum: Me

Mean Sea Level

Site North Alamito Unit (102 & 106)

 Site Position:
 Northing:
 1,901,167.83 usft
 Latitude:
 36.21727000

 From:
 Lat/Long
 Easting:
 1,239,107.83 usft
 Longitude:
 -107.61047300

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

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

 Well Position
 +N/-S
 0.00 ft
 Northing:
 1,901,187.20 usft
 Latitude:
 36.21732300

 +E/-W
 0.00 ft
 Easting:
 1,239,103.38 usft
 Longitude:
 -107.61048900

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

Grid Convergence: -0.80 °

Wellbore Original Hole

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2020
 4/17/2024
 8.44
 62.70
 49.028.15053347

Design rev3

Audit Notes:

Version:Phase:PLANTie On Depth:0.00

 Vertical Section:
 Depth From (TVD)
 +N/-S
 +E/-W
 Direction

 (ft)
 (ft)
 (ft)
 (°)

 0.00
 0.00
 0.00
 136.806

Plan Survey Tool Program Date 5/8/2024

Depth From Depth To

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

1 0.00 18,436.24 rev3 (Original Hole) MWD

OWSG MWD - Standard



Database: DT_Mar1724_v17

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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Crid

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
498.50	0.00	0.000	498.50	0.00	0.00	0.00	0.00	0.00	0.00	
1,502.27	30.11	275.462	1,456.69	24.53	-256.59	3.00	3.00	0.00	275.46	
4,960.69	30.11	275.462	4,448.35	189.68	-1,983.83	0.00	0.00	0.00	0.00	
5,484.45	25.00	130.545	4,947.48	125.73	-2,034.07	10.00	-0.98	-27.67	-162.14	
5,634.45	37.00	130.545	5,075.82	75.60	-1,975.47	8.00	8.00	0.00	0.00	
5,964.45	70.00	130.545	5,269.41	-94.46	-1,776.66	10.00	10.00	0.00	0.00	
6,166.29	90.18	130.545	5,303.96	-223.05	-1,626.35	10.00	10.00	0.00	0.00	
18,436.95	90.18	130.545	5,264.50	-8,199.42	7,698.09	0.00	0.00	0.00	0.00	North Alamito 106 BH



Database: DT_Mar1724_v17

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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Crid

Planned Surve	/								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	1,901,187.20	1,239,103.38	36.21732300	-107.61048900
50.00	0.00	0.000	50.00	0.00	0.00	1,901,187.20	1,239,103.38	36.21732300	-107.61048900
100.00	0.00	0.000	100.00	0.00	0.00	1,901,187.20	1,239,103.38	36.21732300	-107.61048900
150.00	0.00	0.000	150.00	0.00	0.00	1,901,187.20	1,239,103.38	36.21732300	-107.61048900
200.00	0.00	0.000	200.00	0.00	0.00	1,901,187.20	1,239,103.38	36.21732300	-107.61048900
250.00	0.00	0.000	250.00	0.00	0.00	1,901,187.20	1,239,103.38	36.21732300	-107.61048900
300.00		0.000	300.00	0.00	0.00	1,901,187.20	1,239,103.38	36.21732300	-107.61048900
348.50		0.000	348.50	0.00	0.00	1,901,187.20	1,239,103.38	36.21732300	-107.61048900
	urface Casing								
350.00		0.000	350.00	0.00	0.00	1,901,187.20	1,239,103.38	36.21732300	-107.61048900
400.00		0.000	400.00	0.00	0.00	1,901,187.20	1,239,103.38	36.21732300	-107.61048900
450.00		0.000	450.00	0.00	0.00	1,901,187.20	1,239,103.38	36.21732300	-107.61048900
498.50		0.000	498.50	0.00	0.00	1,901,187.20	1,239,103.38	36.21732300	-107.61048900
	gin 3°/100' bui		500.00	2.22	2.22	4 004 107 00	4 000 100 00	00.0470000	407.04040654
500.00		275.462	500.00	0.00	0.00	1,901,187.20	1,239,103.38	36.21732300	-107.61048901
550.00		275.462	549.99	0.07	-0.69	1,901,187.26	1,239,102.69	36.21732315	-107.61049135
600.00		275.462	599.95	0.26	-2.68	1,901,187.45	1,239,100.70	36.21732360	-107.61049811
650.00 700.00		275.462	649.84 699.63	0.57	-5.98	1,901,187.77	1,239,097.41	36.21732434	-107.61050929
750.00		275.462 275.462	749.27	1.01 1.57	-10.57 -16.46	1,901,188.21	1,239,092.81 1,239,086.92	36.21732537 36.21732669	-107.61052488 -107.61054487
800.00		275.462	798.75	2.26	-23.64	1,901,188.77 1,901,189.46	1,239,060.92	36.21732830	-107.61056924
850.00		275.462	848.02	3.07	-32.11	1,901,190.27	1,239,079.74	36.21733019	-107.61059797
900.00		275.462	897.05	4.00	-41.86	1,901,191.20	1,239,061.53	36.21733238	-107.61063106
950.00		275.462	945.81	5.06	-52.88	1,901,192.25	1,239,050.51	36.21733485	-107.61066846
1,000.00		275.462	994.26	6.23	-65.17	1,901,193.43	1,239,038.22	36.21733760	-107.61071017
1,050.00		275.462	1,042.37	7.53	-78.72	1,901,194.72	1,239,024.67	36.21734064	-107.61075615
1,079.71		275.462	1,070.78	8.35	-87.36	1,901,195.55	1,239,016.03	36.21734257	-107.61078547
Ojo Alar	no								
1,100.00		275.462	1,090.11	8.94	-93.51	1,901,196.14	1,239,009.87	36.21734395	-107.61080637
1,150.00	19.55	275.462	1,137.44	10.47	-109.55	1,901,197.67	1,238,993.84	36.21734754	-107.61086079
1,200.00	21.05	275.462	1,184.33	12.12	-126.81	1,901,199.32	1,238,976.57	36.21735141	-107.61091937
1,201.68	21.10	275.462	1,185.90	12.18	-127.41	1,901,199.38	1,238,975.97	36.21735155	-107.61092142
Kirtland									
1,250.00	22.55	275.462	1,230.76	13.89	-145.29	1,901,201.09	1,238,958.09	36.21735555	-107.61098209
1,300.00	24.05	275.462	1,276.68	15.77	-164.97	1,901,202.97	1,238,938.41	36.21735996	-107.61104889
1,350.00		275.462	1,322.07	17.77	-185.85	1,901,204.96	1,238,917.54	36.21736464	-107.61111973
1,387.94	26.68	275.462	1,356.14	19.36	-202.47	1,901,206.55	1,238,900.91	36.21736836	-107.61117615
Fruitlan									
1,400.00		275.462	1,366.89	19.88	-207.90	1,901,207.07	1,238,895.49	36.21736958	-107.61119455
1,450.00		275.462	1,411.12	22.10	-231.10	1,901,209.29	1,238,872.28	36.21737478	-107.61127332
1,500.00		275.462	1,454.73	24.43	-255.46	1,901,211.62	1,238,847.93	36.21738023	-107.61135597
1,502.27		275.462	1,456.69	24.53	-256.59	1,901,211.73	1,238,846.79	36.21738049	-107.61135982
1,550.00	0.11° tangent	275 462	1 407 00	26.04	200.42	1,901,214.01	1 220 022 06	26 24720502	107 611 1 107 1
1,600.00		275.462 275.462	1,497.98	26.81 29.20	-280.43 -305.40	1,901,214.01	1,238,822.96	36.21738583 36.21739142	-107.61144071
1,650.00		275.462	1,541.23 1,584.48	31.59	-330.37	1,901,218.78	1,238,797.99 1,238,773.01	36.21739702	-107.61152546 -107.61161021
1,700.00		275.462	1,627.74	33.98	-355.34	1,901,218.78	1,238,748.04	36.21740261	-107.61169496
1,750.00		275.462	1,670.99	36.36	-380.31	1,901,223.56	1,238,723.07	36.21740820	-107.61177971
1,773.99		275.462	1,691.74	37.51	-392.29	1,901,224.70	1,238,711.09	36.21741089	-107.61182036
Pictured			,			, ,	,,		
1,800.00		275.462	1,714.24	38.75	-405.29	1,901,225.95	1,238,698.10	36.21741380	-107.61186445
1,850.00		275.462	1,757.49	41.14	-430.26	1,901,228.33	1,238,673.13	36.21741939	-107.61194920
1,900.00		275.462	1,800.74	43.53	-455.23	1,901,230.72	1,238,648.16	36.21742499	-107.61203395
1,950.00		275.462	1,844.00	45.91	-480.20	1,901,233.11	1,238,623.18	36.21743058	-107.61211870



Database: DT_Mar1724_v17
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Site: North Alamito Unit (102 & 106)
Well: North Alamito Unit 106 H

Wellbore: Original Hole
Design: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Crid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,953.50	30.11	275.462	1,847.02	46.08	-481.95	1,901,233.28	1,238,621.44	36.21743097	-107.61212463
Lewis									
2,000.00	30.11	275.462	1,887.25	48.30	-505.17	1,901,235.50	1,238,598.21	36.21743617	-107.61220345
2,050.00	30.11	275.462	1,930.50	50.69	-530.14	1,901,237.88	1,238,573.24	36.21744177	-107.61228819
2,100.00	30.11	275.462	1,973.75	53.08	-555.12	1,901,240.27	1,238,548.27	36.21744736	-107.61237294
2,150.00	30.11	275.462	2,017.00	55.46	-580.09	1,901,242.66	1,238,523.30	36.21745295	-107.61245769
2,200.00	30.11	275.462	2,060.25	57.85	-605.06	1,901,245.05	1,238,498.33	36.21745855	-107.61254244
2,243.03	30.11	275.462	2,097.48	59.91	-626.55	1,901,247.10	1,238,476.84	36.21746336	-107.61261537
Chacra_A									
2,250.00	30.11	275.462	2,103.51	60.24	-630.03	1,901,247.44	1,238,473.36	36.21746414	-107.61262719
2,300.00	30.11	275.462	2,146.76	62.63	-655.00	1,901,249.82	1,238,448.38	36.21746973	-107.61271193
2,350.00	30.11	275.462	2,190.01	65.01	-679.97	1,901,252.21	1,238,423.41	36.21747533	-107.61279668
2,400.00	30.11	275.462	2,233.26	67.40	-704.95	1,901,254.60	1,238,398.44	36.21748092	-107.61288143
2,450.00	30.11	275.462	2,276.51	69.79	-729.92	1,901,256.99	1,238,373.47	36.21748651	-107.61296618
2,500.00	30.11	275.462	2,319.77	72.18	-754.89	1,901,259.37	1,238,348.50	36.21749211	-107.61305093
2,550.00	30.11	275.462	2,363.02	74.57	-779.86	1,901,261.76	1,238,323.53	36.21749770	-107.61313567
2,600.00	30.11	275.462	2,406.27	76.95	-804.83	1,901,264.15	1,238,298.56	36.21750329	-107.61322042
2,650.00	30.11	275.462	2,449.52	79.34	-829.80	1,901,266.54	1,238,273.58	36.21750889	-107.61330517
2,700.00	30.11	275.462	2,492.77	81.73	-854.77	1,901,268.92	1,238,248.61	36.21751448	-107.61338992
2,750.00	30.11	275.462	2,536.02	84.12	-879.75	1,901,271.31	1,238,223.64	36.21752007	-107.61347467
2,800.00	30.11	275.462	2,579.28	86.50	-904.72	1,901,273.70	1,238,198.67	36.21752566	-107.61355942
2,850.00	30.11	275.462	2,622.53	88.89	-929.69	1,901,276.09	1,238,173.70	36.21753126	-107.61364416
2,900.00	30.11	275.462	2,665.78	91.28	-954.66	1,901,278.47	1,238,148.73	36.21753685	-107.61372891
2,950.00	30.11	275.462	2,709.03	93.67	-979.63	1,901,280.86	1,238,123.75	36.21754244	-107.61381366
3,000.00	30.11	275.462	2,752.28	96.05	-1,004.60	1,901,283.25	1,238,098.78	36.21754803	-107.61389841
3,050.00	30.11	275.462	2,795.54	98.44	-1,029.58	1,901,285.64	1,238,073.81	36.21755363	-107.61398316
3,100.00	30.11	275.462	2,838.79 2,882.04	100.83 103.22	-1,054.55	1,901,288.02	1,238,048.84	36.21755922	-107.61406790
3,150.00 3,200.00	30.11 30.11	275.462 275.462	2,002.04	105.22	-1,079.52 -1,104.49	1,901,290.41 1,901,292.80	1,238,023.87 1,237,998.90	36.21756481 36.21757040	-107.61415265 -107.61423740
3,250.00	30.11	275.462	2,968.54	103.00	-1,129.46	1,901,295.19	1,237,990.90	36.21757600	-107.61432215
3,300.00	30.11	275.462	3,011.79	110.38	-1,129.40	1,901,293.19	1,237,948.95	36.21758159	-107.61440690
3,350.00	30.11	275.462	3,055.05	112.77	-1,179.40	1,901,299.96	1,237,923.98	36.21758718	-107.61449165
3,400.00	30.11	275.462	3,098.30	115.16	-1,204.38	1,901,302.35	1,237,899.01	36.21759277	-107.61457639
3,450.00	30.11	275.462	3,141.55	117.54	-1,229.35	1,901,304.74	1,237,874.04	36.21759837	-107.61466114
3,499.60	30.11	275.462	3,184.46	119.91	-1,254.12	1,901,307.11	1,237,849.27	36.21760391	-107.61474522
Cliff Hous		2.002	0,101110		.,202	1,001,001111	.,20.,0.0.2.	00.21100001	
3,500.00	30.11	275.462	3,184.80	119.93	-1,254.32	1,901,307.13	1,237,849.07	36.21760396	-107.61474589
3,545.93	30.11	275.462	3,224.53	122.12	-1,277.26	1,901,309.32	1,237,826.13	36.21760909	-107.61482374
Menefee			,		,		, ,		
3,550.00	30.11	275.462	3,228.05	122.32	-1,279.29	1,901,309.51	1,237,824.10	36.21760955	-107.61483064
3,600.00	30.11	275.462	3,271.31	124.71	-1,304.26	1,901,311.90	1,237,799.12	36.21761514	-107.61491539
3,650.00	30.11	275.462	3,314.56	127.09	-1,329.23	1,901,314.29	1,237,774.15	36.21762073	-107.61500014
3,700.00	30.11	275.462	3,357.81	129.48	-1,354.21	1,901,316.68	1,237,749.18	36.21762632	-107.61508488
3,750.00	30.11	275.462	3,401.06	131.87	-1,379.18	1,901,319.06	1,237,724.21	36.21763192	-107.61516963
3,800.00	30.11	275.462	3,444.31	134.26	-1,404.15	1,901,321.45	1,237,699.24	36.21763751	-107.61525438
3,850.00	30.11	275.462	3,487.56	136.64	-1,429.12	1,901,323.84	1,237,674.27	36.21764310	-107.61533913
3,900.00	30.11	275.462	3,530.82	139.03	-1,454.09	1,901,326.23	1,237,649.30	36.21764869	-107.61542388
3,950.00	30.11	275.462	3,574.07	141.42	-1,479.06	1,901,328.61	1,237,624.32	36.21765428	-107.61550863
4,000.00	30.11	275.462	3,617.32	143.81	-1,504.04	1,901,331.00	1,237,599.35	36.21765987	-107.61559337
4,050.00	30.11	275.462	3,660.57	146.19	-1,529.01	1,901,333.39	1,237,574.38	36.21766546	-107.61567812
4,100.00	30.11	275.462	3,703.82	148.58	-1,553.98	1,901,335.78	1,237,549.41	36.21767106	-107.61576287
4,150.00	30.11	275.462	3,747.08	150.97	-1,578.95	1,901,338.16	1,237,524.44	36.21767665	-107.61584762
4,200.00	30.11	275.462	3,790.33	153.36	-1,603.92	1,901,340.55	1,237,499.47	36.21768224	-107.61593237
4,250.00	30.11	275.462	3,833.58	155.74	-1,628.89	1,901,342.94	1,237,474.50	36.21768783	-107.61601712



Database: DT_Mar1724_v17
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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Grid

Planned Surv	Э у								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,300.0	0 30.11	275.462	3,876.83	158.13	-1,653.86	1,901,345.33	1,237,449.52	36.21769342	-107.61610186
4,350.0		275.462	3,920.08	160.52	-1,678.84	1,901,347.72	1,237,424.55	36.21769901	-107.61618661
4,400.0		275.462	3,963.33	162.91	-1,703.81	1,901,350.10	1,237,399.58	36.21770460	-107.61627136
4,450.0		275.462	4,006.59	165.30	-1,728.78	1,901,352.49	1,237,374.61	36.21771019	-107.61635611
4,500.0		275.462	4,049.84	167.68	-1,753.75	1,901,354.88	1,237,349.64	36.21771578	-107.61644086
4,507.1		275.462	4,056.05	168.03	-1,757.34	1,901,355.22	1,237,346.05	36.21771659	-107.61645302
	ookout	275.462	4,093.09	170.07	1 770 70	1 001 257 27	1 227 224 67	26 21772127	107 61652561
4,550.0 4,600.0		275.462	4,093.09	170.07 172.46	-1,778.72 -1,803.69	1,901,357.27 1,901,359.65	1,237,324.67 1,237,299.69	36.21772137 36.21772696	-107.61652561 -107.61661035
4,650.0		275.462	4,179.59	174.85	-1,828.67	1,901,362.04	1,237,239.09	36.21773255	-107.61669510
4,700.0		275.462	4,222.85	177.23	-1,853.64	1,901,364.43	1,237,249.75	36.21773815	-107.61677985
4,750.0		275.462	4,266.10	179.62	-1,878.61	1,901,366.82	1,237,224.78	36.21774374	-107.61686460
4,750.3		275.462	4,266.43	179.64	-1,878.80	1,901,366.83	1,237,224.59	36.21774378	-107.61686525
Manco	s								
4,800.0		275.462	4,309.35	182.01	-1,903.58	1,901,369.20	1,237,199.81	36.21774933	-107.61694935
4,850.0	0 30.11	275.462	4,352.60	184.40	-1,928.55	1,901,371.59	1,237,174.84	36.21775492	-107.61703410
4,900.0	0 30.11	275.462	4,395.85	186.78	-1,953.52	1,901,373.98	1,237,149.87	36.21776051	-107.61711885
4,950.0		275.462	4,439.11	189.17	-1,978.49	1,901,376.37	1,237,124.89	36.21776610	-107.61720359
4,960.6	9 30.11	275.462	4,448.35	189.68	-1,983.83	1,901,376.88	1,237,119.56	36.21776729	-107.61722171
_		uild/turn							
5,000.0		272.751	4,482.97	191.04	-2,002.39	1,901,378.24	1,237,101.00	36.21777030	-107.61728465
5,050.0		268.086	4,528.61	191.26	-2,022.77	1,901,378.46	1,237,080.62	36.21777013	-107.61735374
5,100.0		261.117	4,575.72	189.80	-2,039.40	1,901,377.00	1,237,063.98	36.21776547	-107.61741006
5,130.4		254.968	4,604.94	188.09	-2,047.64	1,901,375.29	1,237,055.75	36.21776046	-107.61743789
MNCS 5,150.0	_	249.838	4,623.95	186.67	-2,052.17	1,901,373.86	1,237,051.22	36.21775637	-107.61745319
5,200.0		230.506	4,672.92	181.88	-2,060.98	1,901,369.08	1,237,031.22	36.21774289	-107.61748279
5,232.5		212.076	4,704.97	177.91	-2,064.54	1,901,365.10	1,237,038.85	36.21773182	-107.61749467
MNCS		212.010	1,701.07	177.01	2,001.01	1,001,000.10	1,201,000.00	00.21770102	107.017 10 107
5,250.0	_	200.835	4,722.26	175.48	-2,065.74	1,901,362.68	1,237,037.65	36.21772513	-107.61749865
5,300.0		171.261	4,771.60	167.52	-2,066.44	1,901,354.72	1,237,036.95	36.21770323	-107.61750063
5,320.7		162.044	4,791.94	163.78	-2,065.54	1,901,350.98	1,237,037.85	36.21769299	-107.61749739
MNCS	С								
5,350.0	_	152.056	4,820.57	158.05	-2,063.06	1,901,345.25	1,237,040.33	36.21767736	-107.61748873
5,366.8	3 14.64	147.614	4,836.90	154.54	-2,061.01	1,901,341.73	1,237,042.38	36.21766779	-107.61748161
MNCS	_Cms								
5,400.0	0 17.39	140.849	4,868.78	147.15	-2,055.64	1,901,334.35	1,237,047.75	36.21764771	-107.61746304
5,450.0		133.918	4,915.87	134.90	-2,044.22	1,901,322.10	1,237,059.17	36.21761451	-107.61742375
5,484.4	5 25.00	130.545	4,947.48	125.73	-2,034.07	1,901,312.92	1,237,069.32	36.21758970	-107.61738892
_	8°/100' build								
5,500.0		130.545	4,961.50	121.36	-2,028.96	1,901,308.55	1,237,074.43	36.21757790	-107.61737139
5,500.2		130.545	4,961.72	121.29	-2,028.88	1,901,308.48	1,237,074.51	36.21757771	-107.61737110
MNCS									
5,550.0		130.545	5,005.54	105.98	-2,010.98	1,901,293.17	1,237,092.41	36.21753636	-107.61730972
5,600.0		130.545	5,047.82	88.64	-1,990.71	1,901,275.84	1,237,112.67	36.21748953	-107.61724020
5,631.5		130.545	5,073.46	76.75	-1,976.82	1,901,263.95	1,237,126.57	36.21745742	-107.61719253
MNCS 5,634.4	_	130.545	5,075.82	75.60	-1,975.47	1,901,262.80	1,237,127.92	36.21745431	-107.61718791
		130.043	3,073.62	70.00	-1,373.47	1,501,202.00	1,231,121.92	30.21743431	-107.01710791
5,650.0	10°/100' build 0 38.56	130.545	5,088.11	69.41	-1,968.23	1,901,256.60	1,237,135.16	36.21743758	-107.61716308
5,700.0		130.545	5,000.11	48.07	-1,906.23	1,901,235.26	1,237,160.11	36.21737994	-107.61707751
5,700.0		130.545	5,127.28	47.15	-1,942.21	1,901,234.34	1,237,161.18	36.21737746	-107.61707383
MNCS			5, .27.25	17.10	.,0 .2.21	.,55.,251.54	.,20.,101.10	33.21707710	
IVINCS	_'								



Database: DT_Mar1724_v17

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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Crid

ned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
5,750.00	48.56	130.545	5,160.49	24.67	-1,915.93	1,901,211.87	1,237,187.45	36.21731675	-107.616983
5,800.00	53.56	130.545	5,191.91	-0.60	-1,886.39	1,901,186.60	1,237,217.00	36.21724849	-107.61688
5,815.51	55.11	130.545	5,200.95	-8.79	-1,876.82	1,901,178.41	1,237,226.57	36.21722636	-107.61684
MNCS_G	ì								
5,850.00	58.56	130.545	5,219.82	-27.55	-1,854.88	1,901,159.64	1,237,248.50	36.21717568	-107.61677
5,900.00	63.56	130.545	5,244.01	-55.99	-1,821.65	1,901,131.21	1,237,281.74	36.21709888	-107.61666
5,939.93	67.55	130.545	5,260.54	-79.61	-1,794.03	1,901,107.58	1,237,309.36	36.21703506	-107.61656
MNCS_H									
5,950.00	68.56	130.545	5,264.30	-85.68	-1,786.93	1,901,101.51	1,237,316.46	36.21701867	-107.61654
5,964.45	70.00	130.545	5,269.41	-94.46	-1,776.66	1,901,092.73	1,237,326.72	36.21699495	-107.61650
70° inc @	5964.45 MD	5269.41 TVD							
6,000.00	73.56	130.545	5,280.53	-116.41	-1,751.01	1,901,070.78	1,237,352.38	36.21693566	-107.61641
6,017.62	75.32	130.545	5,285.25	-127.45	-1,738.11	1,901,059.75	1,237,365.28	36.21690586	-107.61637
MNCS_I									
6,050.00	78.56	130.545	5,292.57	-147.95	-1,714.14	1,901,039.25	1,237,389.25	36.21685048	-107.61629
6,064.45	80.00	130.545	5,295.26	-157.18	-1,703.35	1,901,030.02	1,237,400.03	36.21682556	-107.61625
7" Interm	nediate Casin	a							
6,100.00	83.56	130.545	5,300.34	-180.04	-1,676.62	1,901,007.15	1,237,426.77	36.21676379	-107.61616
6,150.00	88.56	130.545	5,303.78	-212.46	-1,638.73	1,900,974.74	1,237,464.66	36.21667623	-107.61603
6,166.29	90.18	130.545	5,303.96	-223.05	-1,626.35	1,900,964.15	1,237,477.04	36.21664763	-107.61599
Begin 90	.18° lateral								
6,200.00	90.18	130.545	5,303.85	-244.96	-1,600.73	1,900,942.24	1,237,502.65	36.21658844	-107.61590
6,250.00	90.18	130.545	5,303.69	-277.46	-1,562.74	1,900,909.73	1,237,540.65	36.21650065	-107.61577
6,300.00	90.18	130.545	5,303.53	-309.96	-1,524.74	1,900,877.23	1,237,578.64	36.21641286	-107.61564
6,350.00	90.18	130.545	5,303.37	-342.46	-1,486.75	1,900,844.73	1,237,616.64	36.21632507	-107.6155°
6,400.00	90.18	130.545	5,303.21	-374.97	-1,448.75	1,900,812.23	1,237,654.63	36.21623728	-107.61538
6,450.00	90.18	130.545	5,303.05	-407.47	-1,410.76	1,900,779.73	1,237,692.63	36.21614948	-107.61525
6,500.00	90.18	130.545	5,302.89	-439.97	-1,372.77	1,900,747.23	1,237,730.62	36.21606169	-107.61512
6,550.00	90.18	130.545	5,302.73	-472.47	-1,334.77	1,900,714.72	1,237,768.62	36.21597390	-107.61499
6,600.00	90.18	130.545	5,302.57	-504.97	-1,296.78	1,900,682.22	1,237,806.61	36.21588611	-107.61485
6,650.00	90.18	130.545	5,302.40	-537.48	-1,258.78	1,900,649.72	1,237,844.61	36.21579832	-107.61472
6,700.00	90.18	130.545	5,302.24	-569.98	-1,220.79	1,900,617.22	1,237,882.60	36.21571052	-107.61459
6,750.00	90.18	130.545	5,302.08	-602.48	-1,182.79	1,900,584.72	1,237,920.60	36.21562273	-107.61446
6,800.00	90.18	130.545	5,301.92	-634.98	-1,144.80	1,900,552.22	1,237,958.59	36.21553494	-107.61433
6,850.00	90.18	130.545	5,301.76	-667.48	-1,106.80	1,900,519.71	1,237,996.59	36.21544714	-107.61420
6,900.00	90.18	130.545	5,301.60	-699.98	-1,068.81	1,900,487.21	1,238,034.58	36.21535935	-107.61407
6,950.00	90.18	130.545	5,301.44	-732.49	-1,030.81	1,900,454.71	1,238,072.58	36.21527156	-107.61394
7,000.00	90.18	130.545	5,301.28	-764.99	-992.82	1,900,422.21	1,238,110.57	36.21518376	-107.61381
7,050.00	90.18	130.545	5,301.12	-797.49	-954.82	1,900,389.71	1,238,148.56	36.21509597	-107.61368
7,100.00	90.18	130.545	5,300.96	-829.99	-916.83	1,900,357.21	1,238,186.56	36.21500818	-107.61355
7,150.00	90.18	130.545	5,300.80	-862.49	-878.83	1,900,324.70	1,238,224.55	36.21492038	-107.61342
7,200.00	90.18	130.545	5,300.64	-895.00	-840.84	1,900,292.20	1,238,262.55	36.21483259	-107.61329
7,250.00	90.18	130.545	5,300.48	-927.50	-802.84 764.85	1,900,259.70	1,238,300.54	36.21474479	-107.61316
7,300.00	90.18	130.545	5,300.31	-960.00	-764.85	1,900,227.20	1,238,338.54	36.21465700	-107.61303
7,350.00	90.18	130.545	5,300.15	-992.50 1.035.00	-726.85	1,900,194.70	1,238,376.53	36.21456920	-107.61290
7,400.00	90.18	130.545	5,299.99	-1,025.00 1,057.50	-688.86	1,900,162.20	1,238,414.53	36.21448141	-107.61277
7,450.00	90.18	130.545	5,299.83	-1,057.50 1,000.01	-650.86 -612.87	1,900,129.69 1,900,097.19	1,238,452.52	36.21439361	-107.61264
7,500.00 7,550.00	90.18 90.18	130.545 130.545	5,299.67 5,299.51	-1,090.01 -1 122 51	-612.87 -574.87		1,238,490.52	36.21430582 36.21421802	-107.61251 -107.61238
7,600.00	90.18	130.545	5,299.51 5,299.35	-1,122.51 -1,155.01	-574.67 -536.88	1,900,064.69 1,900,032.19	1,238,528.51 1,238,566.51	36.21413023	-107.61225
7,650.00	90.18	130.545	5,299.35	-1,155.01	-336.66 -498.88	1,899,999.69	1,238,604.50	36.21404243	-107.61223
7,000.00	90.18	130.545	5,299.19	-1,167.51	-490.00 -460.89	1,899,967.18	1,238,642.50	36.21395464	-107.61212
7,750.00	90.18	130.545	5,298.87	-1,252.51	-422.89	1,899,934.68	1,238,680.49	36.21386684	-107.61186
1,100.00	90.18	130.545	5,298.71	-1,232.31	-384.90	1,899,902.18	1,238,718.49	36.21377904	-107.61173



Database: DT_Mar1724_v17
Company: Enduring Resources

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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

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
							1 000 750 10		
7,850.00	90.18	130.545	5,298.55	-1,317.52	-346.90	1,899,869.68	1,238,756.48	36.21369125	-107.61160203
7,900.00	90.18	130.545	5,298.39	-1,350.02	-308.91	1,899,837.18	1,238,794.48	36.21360345	-107.61147172
7,950.00	90.18	130.545	5,298.22	-1,382.52 -1,415.02	-270.91 -232.92	1,899,804.68	1,238,832.47	36.21351565	-107.61134141
8,000.00	90.18	130.545	5,298.06	-1,415.02 -1,447.53		1,899,772.17	1,238,870.47	36.21342786	-107.61121109
8,050.00	90.18	130.545	5,297.90 5,207.74	,	-194.93	1,899,739.67	1,238,908.46	36.21334006 36.21325226	-107.61108078
8,100.00 8,150.00	90.18 90.18	130.545 130.545	5,297.74 5,297.58	-1,480.03 -1,512.53	-156.93 -118.94	1,899,707.17 1,899,674.67	1,238,946.45 1,238,984.45	36.21316447	-107.61095047 -107.61082015
8,200.00	90.18	130.545	5,297.36	-1,512.53	-80.94	1,899,642.17	1,239,022.44	36.21307667	-107.61062013
8,250.00	90.18	130.545	5,297.42	-1,545.03	-60.9 4 -42.95	1,899,609.67	1,239,060.44	36.21298887	-107.61055953
8,300.00	90.18	130.545	5,297.20	-1,610.03	-42.95 -4.95	1,899,577.16	1,239,000.44	36.21290108	-107.61042922
8,350.00	90.18	130.545	5,297.10	-1,610.03	33.04	1,899,544.66	1,239,096.43	36.21281328	-107.61029891
8,400.00	90.18	130.545	5,296.94	-1,675.04	71.04	1,899,512.16	1,239,174.42	36.21272548	-107.61016860
8,450.00	90.18	130.545	5,296.62	-1,073.04	109.03	1,899,479.66	1,239,174.42	36.21263768	-107.61003829
8,500.00	90.18	130.545	5,296.46	-1,740.04	147.03	1,899,447.16	1,239,250.41	36.21254988	-107.60990798
8,550.00	90.18	130.545	5,296.29	-1,772.54	185.02	1,899,414.66	1,239,288.41	36.21246209	-107.60977767
8,600.00	90.18	130.545	5,296.29	-1,772.34	223.02	1,899,382.15	1,239,326.40	36.21237429	-107.60964736
8,650.00	90.18	130.545	5,295.13	-1,837.55	261.01	1,899,349.65	1,239,364.40	36.21228649	-107.60951705
8,700.00	90.18	130.545	5,295.81	-1,870.05	299.01	1,899,317.15	1,239,402.39	36.21219869	-107.60938674
8,750.00	90.18	130.545	5,295.65	-1,902.55	337.00	1,899,284.65	1,239,440.39	36.21211089	-107.60925643
8,800.00	90.18	130.545	5,295.49	-1,935.05	375.00	1,899,252.15	1,239,478.38	36.21202309	-107.60912612
8,850.00	90.18	130.545	5,295.33	-1,955.05	412.99	1,899,219.65	1,239,516.38	36.21193529	-107.60899581
8,900.00	90.18	130.545	5,295.17	-2,000.06	450.99	1,899,187.14	1,239,554.37	36.21184749	-107.60886551
8,950.00	90.18	130.545	5,295.17	-2,000.00	488.98	1,899,154.64	1,239,592.37	36.21175969	-107.60873520
9,000.00	90.18	130.545	5,294.85	-2,065.06	526.98	1,899,122.14	1,239,630.36	36.21167189	-107.60860489
9,050.00	90.18	130.545	5,294.69	-2,003.00	564.97	1,899,089.64	1,239,668.36	36.21158409	-107.60847458
9,100.00	90.18	130.545	5,294.53	-2,130.06	602.97	1,899,057.14	1,239,706.35	36.21149629	-107.60834428
9,150.00	90.18	130.545	5,294.37	-2,162.56	640.96	1,899,024.63	1,239,744.34	36.21140849	-107.60821397
9,200.00	90.18	130.545	5,294.20	-2,195.07	678.96	1,898,992.13	1,239,782.34	36.21132069	-107.60808366
9,250.00	90.18	130.545	5,294.04	-2,227.57	716.95	1,898,959.63	1,239,820.33	36.21123289	-107.60795336
9,300.00	90.18	130.545	5,293.88	-2,260.07	754.95	1,898,927.13	1,239,858.33	36.21114509	-107.60782305
9,350.00	90.18	130.545	5,293.72	-2,292.57	792.94	1,898,894.63	1,239,896.32	36.21105729	-107.60769275
9,400.00	90.18	130.545	5,293.56	-2,325.07	830.94	1,898,862.13	1,239,934.32	36.21096949	-107.60756244
9,450.00	90.18	130.545	5,293.40	-2,357.58	868.93	1,898,829.62	1,239,972.31	36.21088169	-107.60743214
9,500.00	90.18	130.545	5,293.24	-2,390.08	906.93	1,898,797.12	1,240,010.31	36.21079389	-107.60730183
9,550.00	90.18	130.545	5,293.08	-2,422.58	944.92	1,898,764.62	1,240,048.30	36.21070609	-107.60717153
9,600.00	90.18	130.545	5,292.92	-2,455.08	982.91	1,898,732.12	1,240,086.30	36.21061829	-107.60704123
9,650.00	90.18	130.545	5,292.76	-2,487.58	1,020.91	1,898,699.62	1,240,124.29	36.21053048	-107.60691092
9,700.00	90.18	130.545	5,292.60	-2,520.08	1,058.90	1,898,667.12	1,240,162.29	36.21044268	-107.60678062
9,750.00	90.18	130.545	5,292.44	-2,552.59	1,096.90	1,898,634.61	1,240,200.28	36.21035488	-107.60665032
9,800.00	90.18	130.545	5,292.27	-2,585.09	1,134.89	1,898,602.11	1,240,238.28	36.21026708	-107.60652001
9,850.00	90.18	130.545	5,292.11	-2,617.59	1,172.89	1,898,569.61	1,240,276.27	36.21017928	-107.60638971
9,900.00	90.18	130.545	5,291.95	-2,650.09	1,210.88	1,898,537.11	1,240,314.27	36.21009147	-107.60625941
9,950.00	90.18	130.545	5,291.79	-2,682.59	1,248.88	1,898,504.61	1,240,352.26	36.21000367	-107.60612911
10,000.00	90.18	130.545	5,291.63	-2,715.10	1,286.87	1,898,472.11	1,240,390.26	36.20991587	-107.60599881
10,050.00	90.18	130.545	5,291.47	-2,747.60	1,324.87	1,898,439.60	1,240,428.25	36.20982807	-107.60586850
10,100.00	90.18	130.545	5,291.31	-2,780.10	1,362.86	1,898,407.10	1,240,466.25	36.20974026	-107.60573820
10,150.00	90.18	130.545	5,291.15	-2,812.60	1,400.86	1,898,374.60	1,240,504.24	36.20965246	-107.60560790
10,200.00	90.18	130.545	5,290.99	-2,845.10	1,438.85	1,898,342.10	1,240,542.23	36.20956466	-107.60547760
10,250.00	90.18	130.545	5,290.83	-2,877.60	1,476.85	1,898,309.60	1,240,580.23	36.20947685	-107.60534730
10,300.00	90.18	130.545	5,290.67	-2,910.11	1,514.84	1,898,277.10	1,240,618.22	36.20938905	-107.60521700
10,350.00	90.18	130.545	5,290.51	-2,942.61	1,552.84	1,898,244.59	1,240,656.22	36.20930125	-107.60508670
10,400.00	90.18	130.545	5,290.35	-2,975.11	1,590.83	1,898,212.09	1,240,694.21	36.20921344	-107.60495640
10,450.00	90.18	130.545	5,290.18	-3,007.61	1,628.83	1,898,179.59	1,240,732.21	36.20912564	-107.60482611
10,500.00	90.18	130.545	5,290.02	-3,040.11	1,666.82	1,898,147.09	1,240,770.20	36.20903784	-107.60469581
10,550.00	90.18	130.545	5,289.86	-3,072.62	1,704.82	1,898,114.59	1,240,808.20	36.20895003	-107.60456551



Database: DT_Mar1724_v17

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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Grid

Design.	1643								
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,600.00	90.18	130.545	5,289.70	-3,105.12	1,742.81	1,898,082.08	1,240,846.19	36.20886223	-107.60443521
10,650.00	90.18	130.545	5,289.54	-3,137.62	1,780.81	1,898,049.58	1,240,884.19	36.20877442	-107.60430491
10,700.00	90.18	130.545	5,289.38	-3,170.12	1,818.80	1,898,017.08	1,240,922.18	36.20868662	-107.60417462
10,750.00	90.18	130.545	5,289.22	-3,202.62	1,856.80	1,897,984.58	1,240,960.18	36.20859881	-107.60404432
10,800.00	90.18	130.545	5,289.06	-3,235.12	1,894.79	1,897,952.08	1,240,998.17	36.20851101	-107.60391402
10,850.00	90.18	130.545	5,288.90	-3,267.63	1,932.79	1,897,919.58	1,241,036.17	36.20842320	-107.60378372
10,900.00	90.18	130.545	5,288.74	-3,300.13	1,970.78	1,897,887.07	1,241,074.16	36.20833540	-107.60365343
10,950.00	90.18	130.545	5,288.58	-3,332.63	2,008.78	1,897,854.57	1,241,112.16	36.20824759	-107.60352313
11,000.00	90.18	130.545	5,288.42	-3,365.13	2,046.77	1,897,822.07	1,241,150.15	36.20815979	-107.60339284
11,050.00	90.18	130.545	5,288.26	-3,397.63	2,084.77	1,897,789.57	1,241,188.15	36.20807198	-107.60326254
11,100.00	90.18	130.545	5,288.09	-3,430.13	2,122.76	1,897,757.07	1,241,226.14	36.20798417	-107.60313225
11,150.00	90.18	130.545	5,287.93	-3,462.64	2,160.75	1,897,724.57	1,241,264.14	36.20789637	-107.60300195
11,200.00	90.18	130.545	5,287.77	-3,495.14	2,198.75	1,897,692.06	1,241,302.13	36.20780856	-107.60287166
11,250.00	90.18	130.545	5,287.61	-3,527.64	2,236.74	1,897,659.56	1,241,340.12	36.20772076	-107.60274136
11,300.00	90.18	130.545	5,287.45	-3,560.14	2,274.74	1,897,627.06	1,241,378.12	36.20763295	-107.60261107
11,350.00	90.18	130.545	5,287.29	-3,592.64	2,312.73	1,897,594.56	1,241,416.11	36.20754514	-107.60248078
11,400.00	90.18	130.545	5,287.13	-3,625.15	2,350.73	1,897,562.06	1,241,454.11	36.20745734	-107.60235048
11,450.00	90.18	130.545	5,286.97	-3,657.65	2,388.72	1,897,529.56	1,241,492.10	36.20736953	-107.60222019
11,500.00	90.18	130.545	5,286.81	-3,690.15	2,426.72	1,897,497.05	1,241,530.10	36.20728172	-107.60208990
11,550.00	90.18	130.545	5,286.65	-3,722.65	2,464.71	1,897,464.55	1,241,568.09	36.20719391	-107.60195960
11,600.00	90.18	130.545	5,286.49	-3,755.15	2,502.71	1,897,432.05	1,241,606.09	36.20710611	-107.60182931
11,650.00	90.18	130.545	5,286.33	-3,787.65	2,540.70	1,897,399.55	1,241,644.08	36.20701830	-107.60169902
11,700.00	90.18	130.545	5,286.16	-3,820.16	2,578.70	1,897,367.05	1,241,682.08	36.20693049	-107.60156873
11,750.00	90.18	130.545	5,286.00	-3,852.66	2,616.69	1,897,334.55	1,241,720.07	36.20684268	-107.60143844
11,800.00	90.18	130.545	5,285.84	-3,885.16	2,654.69	1,897,302.04	1,241,758.07	36.20675488	-107.60130815
11,850.00	90.18	130.545	5,285.68	-3,917.66	2,692.68	1,897,269.54	1,241,796.06	36.20666707	-107.60117785
11,900.00	90.18	130.545	5,285.52	-3,950.16	2,730.68	1,897,237.04	1,241,834.06	36.20657926	-107.60104756
11,950.00	90.18	130.545	5,285.36	-3,982.67	2,768.67	1,897,204.54	1,241,872.05	36.20649145	-107.60091727
12,000.00	90.18	130.545	5,285.20	-4,015.17	2,806.67	1,897,172.04	1,241,910.05	36.20640364	-107.60078698
12,050.00	90.18	130.545	5,285.04	-4,047.67	2,844.66	1,897,139.53	1,241,948.04	36.20631583	-107.60065669
12,100.00	90.18	130.545	5,284.88	-4,080.17	2,882.66	1,897,107.03	1,241,986.04	36.20622802	-107.60052640
12,150.00	90.18	130.545	5,284.72	-4,112.67	2,920.65	1,897,074.53	1,242,024.03	36.20614022	-107.60039612
12,200.00	90.18 90.18	130.545 130.545	5,284.56 5,284.40	-4,145.17	2,958.65	1,897,042.03	1,242,062.03	36.20605241	-107.60026583 -107.60013554
12,250.00 12,300.00	90.18	130.545	5,284.24	-4,177.68 -4,210.18	2,996.64 3,034.64	1,897,009.53 1,896,977.03	1,242,100.02 1,242,138.01	36.20596460 36.20587679	-107.60000525
12,350.00	90.18	130.545	5,284.24	-4,210.16 -4,242.68	3,034.04	1,896,944.52	1,242,176.01	36.20578898	-107.59987496
12,400.00	90.18	130.545	5,283.91	-4,242.00 -4,275.18	3,110.63	1,896,912.02	1,242,214.00	36.20570117	-107.59974467
12,450.00	90.18	130.545	5,283.75	-4,307.68	3,148.62	1,896,879.52	1,242,252.00	36.20561336	-107.59961439
12,500.00	90.18	130.545	5,283.59	-4,340.19	3,186.62	1,896,847.02	1,242,289.99	36.20552555	-107.59948410
12,550.00	90.18	130.545	5,283.43	-4,372.69	3,224.61	1,896,814.52	1,242,327.99	36.20543774	-107.59935381
12,600.00	90.18	130.545	5,283.27	-4,405.19	3,262.61	1,896,782.02	1,242,365.98	36.20534993	-107.59922353
12,650.00	90.18	130.545	5,283.11	-4,437.69	3,300.60	1,896,749.51	1,242,403.98	36.20526212	-107.59909324
12,700.00	90.18	130.545	5,282.95	-4,470.19	3,338.59	1,896,717.01	1,242,441.97	36.20517431	-107.59896296
12,750.00	90.18	130.545	5,282.79	-4,502.69	3,376.59	1,896,684.51	1,242,479.97	36.20508650	-107.59883267
12,800.00	90.18	130.545	5,282.63	-4,535.20	3,414.58	1,896,652.01	1,242,517.96	36.20499868	-107.59870238
12,850.00	90.18	130.545	5,282.47	-4,567.70	3,452.58	1,896,619.51	1,242,555.96	36.20491087	-107.59857210
12,900.00	90.18	130.545	5,282.31	-4,600.20	3,490.57	1,896,587.01	1,242,593.95	36.20482306	-107.59844181
12,950.00	90.18	130.545	5,282.15	-4,632.70	3,528.57	1,896,554.50	1,242,631.95	36.20473525	-107.59831153
13,000.00	90.18	130.545	5,281.98	-4,665.20	3,566.56	1,896,522.00	1,242,669.94	36.20464744	-107.59818125
13,050.00	90.18	130.545	5,281.82	-4,697.70	3,604.56	1,896,489.50	1,242,707.94	36.20455963	-107.59805096
13,100.00	90.18	130.545	5,281.66	-4,730.21	3,642.55	1,896,457.00	1,242,745.93	36.20447182	-107.59792068
13,150.00	90.18	130.545	5,281.50	-4,762.71	3,680.55	1,896,424.50	1,242,783.93	36.20438400	-107.59779040
13,200.00	90.18	130.545	5,281.34	-4,795.21	3,718.54	1,896,391.99	1,242,821.92	36.20429619	-107.59766011
13,250.00	90.18	130.545	5,281.18	-4,827.71	3,756.54	1,896,359.49	1,242,859.92	36.20420838	-107.59752983
13,300.00	90.18	130.545	5,281.02	-4,860.21	3,794.53	1,896,326.99	1,242,897.91	36.20412057	-107.59739955



Database: DT_Mar1724_v17

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

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

Wellbore: Original Hole
Design: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Grid

Map	Design.	1643								
Depth	Planned Survey									
13,400.00 90.18 130,545 5,280.70 4,955.72 3,986.52 1,886,226.94 9.57.73 0,986.57 1,289,026.99 1,284,073.90 36,2039449 4,-07.59078087 13,500.00 90.18 130,545 5,280.38 4,990.22 3,984.51 1,886,196.98 1,243,014.98 36,203676931 -107.59067841 4,000.00 90.18 130,545 5,280.05 5,055.22 4,022.50 1,886,131.98 1,243,125.88 36,20369369 -107.59667868 13,680.00 90.18 130,545 5,279.39 5,067.73 4,060.50 1,886,131.98 1,243,125.88 36,20369369 -107.59667868 13,700.00 90.18 130,545 5,279.79 4,056.50 1,886,131.98 1,243,125.88 36,20369369 -107.59667868 13,700.00 90.18 130,545 5,279.79 4,156.79 4,156.70 1	Depth			Depth			Northing	Easting	Latitude	Longitude
13,400.00 90.18 130,545 5,280.70 4,955.72 3,986.52 1,886,226.94 9.57.73 0,986.57 1,289,026.99 1,284,073.90 36,2039449 4,-07.59078087 13,500.00 90.18 130,545 5,280.38 4,990.22 3,984.51 1,886,196.98 1,243,014.98 36,203676931 -107.59067841 4,000.00 90.18 130,545 5,280.05 5,055.22 4,022.50 1,886,131.98 1,243,125.88 36,20369369 -107.59667868 13,680.00 90.18 130,545 5,279.39 5,067.73 4,060.50 1,886,131.98 1,243,125.88 36,20369369 -107.59667868 13,700.00 90.18 130,545 5,279.79 4,056.50 1,886,131.98 1,243,125.88 36,20369369 -107.59667868 13,700.00 90.18 130,545 5,279.79 4,156.79 4,156.70 1	13 350 00	90 18	130 545	5 280 86	-4 892 72	3 832 53	1 896 294 49	1 242 935 90	36 20403275	-107 59726927
13,550.00 90.18 130,545 5,280.54 4,967.72 3,966.51 1,886,196.98 1,243,0418 9 36,20368713 -107,59687442 13,550.00 90.18 130,545 5,280.22 5,968.51 1,886,196.98 1,243,0418 9 36,20368150 -107,59674814 13,670.00 90.18 130,545 5,280.65 5,056.27 2 3,946.51 1,886,1319.84 1,243,126.83 36,2036939 -107,59674814 13,670.00 90.18 130,545 5,279.93 5,102.73 4,080.50 1,886,1319.84 1,243,126.83 7 36,20350587 -107,59674814 13,700.00 90.18 130,545 5,279.73 5,120.23 4,088.49 1,886,1319.84 1,243,216.83 7 36,20350587 -107,59648758 13,700.00 90.18 130,545 5,279.57 5,515.73 4,126.49 1,886,1319.84 1,243,216.83 7 36,20350587 -107,596648758 13,900.00 90.18 130,545 5,279.57 5,527.73 4,126.24 1,126.	· ·									
13,500.00 90.18 130,545 5,280.38 4,990.22 3,946.51 1,886,164.48 1,243,027.89 36,203676931 -107.59687814 136,000 90.18 130,545 5,280.05 5,055.22 4,022.50 1,886,131.98 1,243,125.88 36,20368169 -107.59687814 1,860.00 90.18 130,545 5,279.89 5,087.73 4,080.50 1,866,131.98 1,243,125.88 36,20368169 -107.59687814 1,243,125.88 36,20368169 -107.59687814 1,243,125.89										
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13,750.00	13,650.00	90.18	130.545	5,279.89	-5,087.73	4,060.50	1,896,099.48	1,243,163.87	36.20350587	-107.59648758
13,800.00	13,700.00	90.18	130.545	5,279.73	-5,120.23	4,098.49	1,896,066.98	1,243,201.87	36.20341806	-107.59635730
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13,900.00 90.18 130.545 5,277.09 5,250.24 4,250.47 1,895,936.97 1,243,333.85 36,2036660 107,59583618 13,050.00 90.18 130.545 5,278.93 5,282.74 4,288.47 1,895,904.47 1,243,391.84 36,20297899 107,59575630 14,000.00 90.18 130.545 5,278.61 5,347.74 4,364.66 1,895,871.97 1,243,467.63 36,20280336 107,59545355 14,100.00 90.18 130.545 5,278.65 5,347.74 4,364.66 1,895,891.47 1,243,467.63 36,20280336 107,59545355 14,100.00 90.18 130.545 5,278.65 5,380.24 4,404.45 1,895,871.49 1,243,467.63 36,20263396 107,595645355 14,250.00 90.18 130.545 5,278.65 5,412.74 4,404.45 1,895,774.46 1,243,543.82 36,20263773 107,59561451 14,250.00 90.18 130.545 5,277.96 5,477.75 4,516.43 1,895,709.46 1,243,679.81 36,2023429 107,59565451 14,250.00 90.18 130.545 5,277.96 5,477.75 4,516.43 1,895,709.46 1,243,679.81 36,2023429 107,59479346 1,4350.00 90.18 130.545 5,277.64 5,542.75 4,564.43 1,895,676.95 1,243,675.81 36,20236429 107,59479346 1,450.00 90.18 130.545 5,277.64 5,564.25 4,304.42 1,895,671.95 1,243,675.81 36,20236429 107,59479346 1,450.00 90.18 130.545 5,277.64 5,564.25 4,304.42 1,895,671.95 1,243,675.81 36,20236429 107,59479346 1,450.00 90.18 130.545 5,277.64 5,564.26 4,706.41 1,895,546.95 1,243,807.78 36,20218665 107,5944341 1,450.00 90.18 130.545 5,277.64 5,760.75 4,744.40 1,895,546.95 1,243,807.78 36,20218064 107,59444311 1,450.00 90.18 130.545 5,277.66 5,780.76 4,744.40 1,895,546.95 1,243,807.78 36,20183739 107,59414288 1,400.00 90.18 130.545 5,277.66 5,780.76 4,744.40 1,895,546.95 1,443,807.78 36,20183739 107,59414281 1,450.00 90.18 130.545 5,276.64 5,787.76 4,840.85 1,895,319.44 1,243,937.78 36,20183739 107,59414281 1,450.00 90.18 130.545 5,276.64 5,787.67 4,804.89 1,895,319.44 1,243,937.78 36,2018391	13,800.00	90.18	130.545	5,279.41	-5,185.23	4,174.48	1,896,001.97	1,243,277.86	36.20324243	-107.59609674
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15,050.00 90.18 130.545 5,275.39 -5,997.78 5,124.35 1,895,189.43 1,244,227.73 36.20104704 -107.59283985 15,100.00 90.18 130.545 5,275.23 -6,030.28 5,162.35 1,895,156.93 1,244,265.72 36.20095922 -107.59270958 15,150.00 90.18 130.545 5,275.07 -6,062.78 5,200.34 1,895,124.43 1,244,303.72 36.20087140 -107.59257930 15,200.00 90.18 130.545 5,274.91 -6,095.28 5,238.34 1,895,091.93 1,244,341.71 36.20078358 -107.59244903 15,250.00 90.18 130.545 5,274.75 -6,127.78 5,276.33 1,895,059.42 1,244,379.71 36.20069576 -107.59218849 15,300.00 90.18 130.545 5,274.59 -6,160.29 5,314.33 1,895,026.92 1,244,417.70 36.20060794 -107.59218849 15,350.00 90.18 130.545 5,274.43 -6,192.79 5,352.32 1,894,994.42 1,244,495.70 36.20052013 -107.59218849 15,450.00 90.18 130.545 5,274.11 -6,257.79 </td <td>14,950.00</td> <td>90.18</td> <td>130.545</td> <td>5,275.71</td> <td>-5,932.77</td> <td>5,048.36</td> <td>1,895,254.43</td> <td>1,244,151.74</td> <td>36.20122267</td> <td>-107.59310039</td>	14,950.00	90.18	130.545	5,275.71	-5,932.77	5,048.36	1,895,254.43	1,244,151.74	36.20122267	-107.59310039
15,100.00 90.18 130.545 5,275.23 -6,030.28 5,162.35 1,895,156.93 1,244,265.72 36.20095922 -107.59270958 15,150.00 90.18 130.545 5,275.07 -6,062.78 5,200.34 1,895,124.43 1,244,303.72 36.20087140 -107.59257930 15,200.00 90.18 130.545 5,274.91 -6,095.28 5,238.34 1,895,091.93 1,244,341.71 36.20078358 -107.59244903 15,250.00 90.18 130.545 5,274.75 -6,127.78 5,276.33 1,895,059.42 1,244,379.71 36.20069576 -107.59231876 15,300.00 90.18 130.545 5,274.59 -6,160.29 5,314.33 1,895,026.92 1,244,417.70 36.20060794 -107.59218849 15,350.00 90.18 130.545 5,274.43 -6,192.79 5,352.32 1,894,994.42 1,244,455.70 36.20052013 -107.59218849 15,450.00 90.18 130.545 5,274.27 -6,225.29 5,390.32 1,894,961.92 1,244,493.69 36.20043231 -107.59192795 15,450.00 90.18 130.545 5,273.94 -6,290.29 </td <td>15,000.00</td> <td>90.18</td> <td>130.545</td> <td>5,275.55</td> <td>-5,965.27</td> <td>5,086.36</td> <td>1,895,221.93</td> <td>1,244,189.73</td> <td>36.20113485</td> <td>-107.59297012</td>	15,000.00	90.18	130.545	5,275.55	-5,965.27	5,086.36	1,895,221.93	1,244,189.73	36.20113485	-107.59297012
15,150.00 90.18 130.545 5,275.07 -6,062.78 5,200.34 1,895,124.43 1,244,303.72 36.20087140 -107.59257930 15,200.00 90.18 130.545 5,274.91 -6,095.28 5,238.34 1,895,091.93 1,244,341.71 36.20078358 -107.59244903 15,250.00 90.18 130.545 5,274.75 -6,127.78 5,276.33 1,895,059.42 1,244,379.71 36.20069576 -107.59231876 15,300.00 90.18 130.545 5,274.59 -6,160.29 5,314.33 1,895,026.92 1,244,417.70 36.20060794 -107.59218849 15,350.00 90.18 130.545 5,274.43 -6,192.79 5,352.32 1,894,994.42 1,244,455.70 36.20052013 -107.59205822 15,400.00 90.18 130.545 5,274.27 -6,225.29 5,390.32 1,894,961.92 1,244,493.69 36.20043231 -107.59192795 15,450.00 90.18 130.545 5,273.94 -6,257.79 5,428.31 1,894,929.42 1,244,531.68 36.20034449 -107.59179768 15,500.00 90.18 130.545 5,273.78 -6,322.79 </td <td>15,050.00</td> <td>90.18</td> <td>130.545</td> <td>5,275.39</td> <td>-5,997.78</td> <td>5,124.35</td> <td>1,895,189.43</td> <td>1,244,227.73</td> <td>36.20104704</td> <td>-107.59283985</td>	15,050.00	90.18	130.545	5,275.39	-5,997.78	5,124.35	1,895,189.43	1,244,227.73	36.20104704	-107.59283985
15,200.00 90.18 130.545 5,274.91 -6,095.28 5,238.34 1,895,091.93 1,244,341.71 36.20078358 -107.59244903 15,250.00 90.18 130.545 5,274.75 -6,127.78 5,276.33 1,895,059.42 1,244,379.71 36.20069576 -107.59231876 15,300.00 90.18 130.545 5,274.59 -6,160.29 5,314.33 1,895,026.92 1,244,417.70 36.20060794 -107.59218849 15,350.00 90.18 130.545 5,274.43 -6,192.79 5,352.32 1,894,994.42 1,244,455.70 36.20052013 -107.59205822 15,400.00 90.18 130.545 5,274.27 -6,225.29 5,390.32 1,894,961.92 1,244,493.69 36.20043231 -107.59192795 15,450.00 90.18 130.545 5,274.11 -6,257.79 5,428.31 1,894,929.42 1,244,531.68 36.20034449 -107.59179768 15,500.00 90.18 130.545 5,273.78 -6,290.29 5,466.31 1,894,896.92 1,244,569.68 36.20025667 -107.59156741	15,100.00	90.18	130.545		-6,030.28	5,162.35	1,895,156.93	1,244,265.72	36.20095922	-107.59270958
15,250.00 90.18 130.545 5,274.75 -6,127.78 5,276.33 1,895,059.42 1,244,379.71 36.20069576 -107.59231876 15,300.00 90.18 130.545 5,274.59 -6,160.29 5,314.33 1,895,026.92 1,244,417.70 36.20060794 -107.59218849 15,350.00 90.18 130.545 5,274.43 -6,192.79 5,352.32 1,894,994.42 1,244,455.70 36.20052013 -107.59205822 15,400.00 90.18 130.545 5,274.27 -6,225.29 5,390.32 1,894,961.92 1,244,493.69 36.20043231 -107.59192795 15,450.00 90.18 130.545 5,274.11 -6,257.79 5,428.31 1,894,929.42 1,244,531.68 36.20034449 -107.59179768 15,500.00 90.18 130.545 5,273.94 -6,290.29 5,466.31 1,894,896.92 1,244,569.68 36.20025667 -107.59166741 15,550.00 90.18 130.545 5,273.78 -6,322.79 5,504.30 1,894,864.41 1,244,607.67 36.20016885 -107.59153714	15,150.00							1,244,303.72		
15,300.00 90.18 130.545 5,274.59 -6,160.29 5,314.33 1,895,026.92 1,244,417.70 36.20060794 -107.59218849 15,350.00 90.18 130.545 5,274.43 -6,192.79 5,352.32 1,894,994.42 1,244,455.70 36.20052013 -107.59205822 15,400.00 90.18 130.545 5,274.27 -6,225.29 5,390.32 1,894,961.92 1,244,493.69 36.20043231 -107.59192795 15,450.00 90.18 130.545 5,274.11 -6,257.79 5,428.31 1,894,929.42 1,244,531.68 36.20034449 -107.59179768 15,500.00 90.18 130.545 5,273.94 -6,290.29 5,466.31 1,894,896.92 1,244,569.68 36.20025667 -107.59166741 15,550.00 90.18 130.545 5,273.78 -6,322.79 5,504.30 1,894,864.41 1,244,607.67 36.20016885 -107.59153714 15,650.00 90.18 130.545 5,273.62 -6,355.30 5,542.30 1,894,831.91 1,244,645.67 36.20008103 -107.59127660 15,650.00 90.18 130.545 5,273.46 -6,387.80 </td <td>· ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	· ·									
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	15,750.00	90.18	130.545	5,273.30	-6,452.80	5,656.28	1,894,734.41	1,244,759.65	36.19981757	-107.59101607
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16,050.00 90.18 130.545 5,272.18 -6,647.81 5,884.25 1,894,539.40 1,244,987.62 36.19929065 -107.59023446										



Database: DT_Mar1724_v17
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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

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
16,100.00	90.18	130.545	5,272.02	-6,680.31	5,922.24	1,894,506.89	1,245,025.62	36.19920283	-107.59010420
16,150.00	90.18	130.545	5,271.85	-6,712.82	5,960.24	1,894,474.39	1,245,063.61	36.19911501	-107.58997393
16,200.00	90.18	130.545	5,271.69	-6,745.32	5,998.23	1,894,441.89	1,245,101.61	36.19902719	-107.58984367
16,250.00	90.18	130.545	5,271.53	-6,777.82	6,036.23	1,894,409.39	1,245,139.60	36.19893937	-107.58971340
16,300.00	90.18	130.545	5,271.37	-6,810.32	6,074.22	1,894,376.89	1,245,177.60	36.19885154	-107.58958314
16,350.00	90.18	130.545	5,271.21	-6,842.82	6,112.22	1,894,344.39	1,245,215.59	36.19876372	-107.58945287
16,400.00	90.18	130.545	5,271.05	-6,875.32	6,150.21	1,894,311.88	1,245,253.59	36.19867590	-107.58932261
16,450.00	90.18	130.545	5,270.89	-6,907.83	6,188.21	1,894,279.38	1,245,291.58	36.19858808	-107.58919234
16,500.00	90.18	130.545	5,270.73	-6,940.33	6,226.20	1,894,246.88	1,245,329.58	36.19850026	-107.58906208
16,550.00	90.18	130.545	5,270.57	-6,972.83	6,264.20	1,894,214.38	1,245,367.57	36.19841244	-107.58893182
16,600.00	90.18	130.545	5,270.41	-7,005.33	6,302.19	1,894,181.88	1,245,405.56	36.19832461	-107.58880155
16,650.00	90.18	130.545	5,270.25	-7,037.83	6,340.19	1,894,149.38	1,245,443.56	36.19823679	-107.58867129
16,700.00	90.18	130.545	5,270.09	-7,070.34	6,378.18	1,894,116.87	1,245,481.55	36.19814897	-107.58854103
16,750.00	90.18	130.545	5,269.93	-7,102.84	6,416.18	1,894,084.37	1,245,519.55	36.19806114	-107.58841076
16,800.00	90.18	130.545	5,269.76	-7,135.34	6,454.17	1,894,051.87	1,245,557.54	36.19797332	-107.58828050
16,850.00	90.18	130.545	5,269.60	-7,167.84	6,492.17	1,894,019.37	1,245,595.54	36.19788550	-107.58815024
16,900.00	90.18	130.545	5,269.44	-7,200.34	6,530.16	1,893,986.87	1,245,633.53	36.19779768	-107.58801998
16,950.00	90.18	130.545	5,269.28	-7,232.84	6,568.16	1,893,954.37	1,245,671.53	36.19770985	-107.58788972
17,000.00	90.18	130.545	5,269.12	-7,265.35	6,606.15	1,893,921.86	1,245,709.52	36.19762203	-107.58775946
17,050.00	90.18	130.545	5,268.96	-7,297.85	6,644.15	1,893,889.36	1,245,747.52	36.19753421	-107.58762920
17,100.00	90.18	130.545	5,268.80	-7,330.35	6,682.14	1,893,856.86	1,245,785.51	36.19744638	-107.58749894
17,150.00	90.18	130.545	5,268.64	-7,362.85	6,720.14	1,893,824.36	1,245,823.51	36.19735856	-107.58736868
17,200.00	90.18	130.545	5,268.48	-7,395.35	6,758.13	1,893,791.86	1,245,861.50	36.19727073	-107.58723842
17,250.00	90.18	130.545	5,268.32	-7,427.86	6,796.13	1,893,759.36	1,245,899.50	36.19718291	-107.58710816
17,300.00	90.18	130.545	5,268.16	-7,460.36	6,834.12	1,893,726.85	1,245,937.49	36.19709508	-107.58697790
17,350.00	90.18	130.545	5,268.00	-7,492.86	6,872.11	1,893,694.35	1,245,975.49	36.19700726	-107.58684764
17,400.00	90.18	130.545	5,267.83	-7,525.36	6,910.11	1,893,661.85	1,246,013.48	36.19691944	-107.58671738
17,450.00	90.18	130.545	5,267.67	-7,557.86	6,948.10	1,893,629.35	1,246,051.48	36.19683161	-107.58658712
17,500.00	90.18	130.545	5,267.51	-7,590.36	6,986.10	1,893,596.85	1,246,089.47	36.19674379	-107.58645686
17,550.00	90.18	130.545	5,267.35	-7,622.87	7,024.09	1,893,564.34	1,246,127.47	36.19665596	-107.58632661
17,600.00	90.18	130.545	5,267.19	-7,655.37	7,062.09	1,893,531.84	1,246,165.46	36.19656813	-107.58619635
17,650.00	90.18	130.545	5,267.03	-7,687.87	7,100.08	1,893,499.34	1,246,203.45	36.19648031	-107.58606609
17,700.00	90.18	130.545	5,266.87	-7,720.37	7,138.08	1,893,466.84	1,246,241.45	36.19639248	-107.58593583
17,750.00	90.18	130.545	5,266.71	-7,752.87	7,136.00	1,893,434.34	1,246,279.44	36.19630466	-107.58580558
17,800.00	90.18	130.545	5,266.55	-7,785.37	7,170.07	1,893,401.84	1,246,317.44	36.19621683	-107.58567532
17,850.00	90.18	130.545	5,266.39	-7,817.88	7,252.06	1,893,369.33	1,246,355.43	36.19612901	-107.58554506
17,900.00	90.18	130.545	5,266.23	-7,850.38	7,290.06	1,893,336.83	1,246,393.43	36.19604118	-107.58541481
17,950.00	90.18	130.545	5,266.07	-7,882.88	7,328.05	1,893,304.33	1,246,431.42	36.19595335	-107.58528455
18,000.00	90.18	130.545	5,265.91	-7,915.38	7,366.05	1,893,271.83	1,246,469.42	36.19586553	-107.58515430
	90.18					1,893,239.33			
18,050.00		130.545	5,265.74	-7,947.88	7,404.04		1,246,507.41	36.19577770	-107.58502404
18,100.00	90.18	130.545	5,265.58 5,265.42	-7,980.39	7,442.04	1,893,206.83	1,246,545.41	36.19568987	-107.58489379
18,150.00	90.18	130.545	5,265.42	-8,012.89	7,480.03	1,893,174.32	1,246,583.40	36.19560205	-107.58476353
18,200.00	90.18	130.545	5,265.26	-8,045.39	7,518.03	1,893,141.82	1,246,621.40	36.19551422	-107.58463328
18,250.00	90.18	130.545	5,265.10	-8,077.89	7,556.02	1,893,109.32	1,246,659.39	36.19542639	-107.58450303
18,300.00	90.18	130.545	5,264.94	-8,110.39	7,594.02	1,893,076.82	1,246,697.39	36.19533856	-107.58437277
18,350.00	90.18	130.545	5,264.78	-8,142.89	7,632.01	1,893,044.32	1,246,735.38	36.19525074	-107.58424252
18,400.00	90.18	130.545	5,264.62	-8,175.40	7,670.01	1,893,011.82	1,246,773.38	36.19516291	-107.58411227
18,436.95	90.18	130.545	5,264.50	-8,199.42	7,698.09	1,892,987.79	1,246,801.46	36.19509800	-107.58401600
PBHL/TD	@ 18436.95	MD 5264.50 T	VD						



Database: DT_Mar1724_v17

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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140) RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Grid

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 cer - Point		0.000	5,264.50	-8,199.42	7,698.09	1,892,987.79	1,246,801.46	36.19509800	-107.58401600
North Alamito 106 vs=0 - plan misses target - Point	0.00 center by 1.38	0.000 3ft at 7122.5	5,299.50 8ft MD (5300	-844.66).88 TVD, -844	-899.67 I.67 N, -899.6	1,900,342.54 7 E)	1,238,203.72	36.21496855	-107.61349793
North Alamito 106 POE 2 - plan misses target - Point		0.000 .37ft at 5482	5,317.50 2.03ft MD (49	685.62 945.29 TVD, 12	-2,688.58 26.39 N, -2034	1,901,872.82 4.84 E)	1,236,414.81	36.21910200	-107.61963400

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	348.50 6,064.45		9-5/8" Surface Casing 7" Intermediate Casing		9-5/8 7	12-1/4 8-3/4	

ations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,079.71	1,070.78	Ojo Alamo		-0.22	130.545
	1,201.68	1,185.90	Kirtland		-0.22	130.545
	1,387.94	1,356.14	Fruitland		-0.22	130.545
	1,773.99	1,691.74	Pictured Cliffs		-0.22	130.545
	1,953.50	1,847.02	Lewis		-0.22	130.545
	2,243.03	2,097.48	Chacra_A		-0.22	130.545
	3,499.60	3,184.46	Cliff House_Basal		-0.22	130.545
	3,545.93	3,224.53	Menefee		-0.22	130.545
	4,507.18	4,056.05	Point Lookout		-0.22	130.545
	4,750.38	4,266.43	Mancos		-0.22	130.545
	5,130.41	4,604.94	MNCS_A		-0.22	130.545
	5,232.50	4,704.97	MNCS_B		-0.22	130.545
	5,320.70	4,791.94	MNCS_C		-0.22	130.545
	5,366.83	4,836.90	MNCS_Cms		-0.22	130.545
	5,500.24	4,961.72	MNCS_D		-0.22	130.545
	5,631.50	5,073.46	MNCS_E		-0.22	130.545
	5,702.05	5,127.28	MNCS_F		-0.22	130.545
	5,815.51	5,200.95	MNCS_G		-0.22	130.545
	5,939.93	5,260.54	MNCS_H		-0.22	130.545
	6,017.62	5,285.25	MNCS_I		-0.22	130.545



Database: DT_Mar1724_v17

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: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well North Alamito Unit 106 H

RKB=6962+23.5 @ 6985.50ft (Ensign 140)

RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Grid

itions				
Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
498.50	498.50	0.00	0.00	KOP Begin 3°/100' build
1,502.27	1,456.69	24.53	-256.59	Begin 30.11° tangent
4,960.69	4,448.35	189.68	-1,983.83	Begin 10°/100' drop build/turn
5,484.45	4,947.48	125.73	-2,034.07	Begin 8°/100' build
5,634.45	5,075.82	75.60	-1,975.47	Begin 10°/100' build
5,964.45	5,269.41	-94.46	-1,776.66	70° inc @ 5964.45 MD 5269.41 TVD
6,166.29	5,303.96	-223.05	-1,626.35	Begin 90.18° lateral
18,436.95	5,264.50	-8,199.42	7,698.09	PBHL/TD @ 18436.95 MD 5264.50 TVD

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 346443

CONDITIONS

Operator:	OGRID:
DJR OPERATING, LLC	371838
200 Energy Court	Action Number:
Farmington, NM 87401	346443
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		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.	5/21/2024