Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

| FORM APPROVED |
|-------------------------|
| OMB NO. 1004-0137 |
| Expires: January 31, 20 |
| |

| OMB NO. 1004-0137 |
|-------------------------|
| Expires: January 31, 20 |
| Lease Serial No. |
| NMNM0554433 |

| SUNDRY N | OTICES AND REPORTS ON WELLS | |
|-----------------|--|---|
| Do not use this | form for proposals to drill or to re-enter a | n |
| | Han form 2460 2 (ADD) for such much | |

6. If Indian, Allottee or Tribe Nam

| abandoned we | II. Use form 3160-3 (APD) | for such proposals. | 6. If Indian, Allottee EASTERN NA | |
|--|---|--|---|--|
| SUBMIT IN | TRIPLICATE - Other instruc | ctions on page 2 | 7. If Unit or CA/Agr NMNM130812 | reement, Name and/or No. |
| 1. Type of Well | | | 8. Well Name and No | |
| ☑ Oil Well ☐ Gas Well ☐ Ott | S ESCAVADA U | | | |
| Name of Operator ENDURING RESOURCES LL | Contact: LA C E-Mail: lgranillo@endo | CEY GRANILLO uringresources.com | 9. API Well No. 30-043-21324- | -00-X1 |
| 3a. Address 1050 17TH STREET SUITE 2 DENVER, CO 80265 | | b. Phone No. (include area code) h: 505-636-9743 | 10. Field and Pool of BASIN MANC | |
| 4. Location of Well (Footage, Sec., 7 | C., R., M., or Survey Description) | | 11. County or Parish | , State |
| Sec 26 T22N R7W NENE 494 36.115891 N Lat, 107.540588 | | | SANDOVAL C | OUNTY, NM |
| 12. CHECK THE A | PPROPRIATE BOX(ES) TO | INDICATE NATURE OF | F NOTICE, REPORT, OR OT | THER DATA |
| TYPE OF SUBMISSION | | TYPE OF | ACTION | |
| Notice of Intent | ☐ Acidize | □ Deepen | ☐ Production (Start/Resume) | ■ Water Shut-Off |
| _ | ☐ Alter Casing | ☐ Hydraulic Fracturing | □ Reclamation | ■ Well Integrity |
| ☐ Subsequent Report | ☐ Casing Repair | ■ New Construction | ☐ Recomplete | Other |
| ☐ Final Abandonment Notice | ☐ Change Plans | □ Plug and Abandon | □ Temporarily Abandon | Change to Original A PD |
| BP | ☐ Convert to Injection | ☐ Plug Back | ■ Water Disposal | |
| If the proposal is to deepen direction Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for for change in plans | rk will be performed or provide the loperations. If the operation results bandonment Notices must be filed or | Bond No. on file with BLM/BIA in a multiple completion or reco | Required subsequent reports must be mpletion in a new interval, a Form 31 | be filed within 30 days 60-4 must be filed once |
| A summary of the requested of attachments for additional det | |) is outlined below. Please | reference the | |
| C102 Moved BHL from section 23 to Moved POE from section 23 to Drilling Program Directional plan updated base Casing program change Surface: 9-5/8? to 13-3/8? | o section 23 | CONDITIONS OF NO NEW | APPROVAL | NMOCD |
| | | | FI | EB 2 6 2020 |
| | Electronic Submission #501 | SOURCES LLC, sent to the essing by JOE KILLINS on 02 | Farmington | TRICT III |
| Name (Timeartypea) LAOLT C | SIVAINILLO | THE PERIOR | TING SI ECIALIST | |
| Signature (Electronic | Submission) | Date 01/29/20 | 020 | |
| | THIS SPACE FOR | FEDERAL OR STATE (| OFFICE USE | |
| _Approved By_JQE KILLINS | | | JM ENGINEER | Date 02/24/2020 |
| Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to conduct the conductive to conduct the applicant t | uitable title to those rights in the sub | warrant or oject lease Office Farmingt | on | |

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.







Additional data for EC transaction #501378 that would not fit on the form

32. Additional remarks, continued

Intermediate: 7? to 9-5/8? Production: 4-1/2? liner to 5-1/2? long-string

Frac Program
Fluid type: change from nitrogen foam to slick-water
Water volume: increase from not provided bbls to 150,000 bbls (estimated)
Sand weight: increase from 4.4 million lbs to 7.0 million lbs (estimated)

District I 1625 N. French Drive, Hobbs, NM 68240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First Street, Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone:(505) 476-3460 Fax:(505) 476-3462

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

Submit one copy to Appropriate District Office

AMENDED REPORT

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

| | WELL | LOCATION | AND | ACREAGE | DEDICA | ION | PLAT | | |
|-------------------------|-------|---------------------|-------|---------------------------|--------|-----|-----------------|--------|---------------------|
| \$0.043 . | 11324 | 'Paol Code 52860 | | | PUSTY | | 1 Name UP 0I | L POOL | |
| Property Code 322151 | | S | | Operty Name CAVADA UNI | T | | | | Well Number 355H |
| 'OGRID No. 372286 | | ENDUF | | erator Name RESOURCES | S, LLC | | | | Elevation 6779 |
| | | 10 | Sunfa | ace Locati | on | | | | |

| 200.00 | 2/ | 2 NW/4. SE/4 - | | | 19 Josef on Infall | ¹⁴ Consolidation Code | to Order No | 14347 | |
|---------------|------------|-------------------|--|---------|--------------------|----------------------------------|-------------------|---------------------|----------|
| ul or lot no. | Section 23 | 22N | Maria de la companya del companya de la companya del companya de la companya de l | Lot Ion | Feet from the 1614 | North/South line | Feet from the 330 | East/West line WEST | SANDOVAL |
| | | | Botto | m Hole | Location I | f Different | From Surfac | е | |
| А | 26 | 55N | 7W | | 494 | NORTH | 1239 | EAST | SANDOVAL |
| OL or lot no. | Section | (Omusu 10 | Henge | rot tou | Feet from the | North/South Tine | Feet from the | ENST/MEST TIME | Codicy |

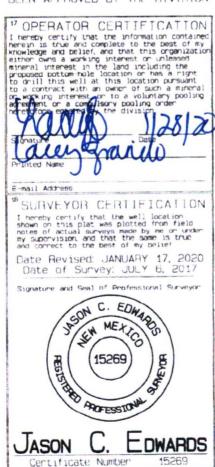
(RECORD) NB9 *45 W 2614.26* NB9 *00*14*W 2613 00* (MEASURED) (RECORD) N89 *45 W 2614.26 N88 *59 15 W 2612.55 (MEASURED) END-OF-LATERAL 1614 FNL 330° FWL SEC 23, T2PN, P7W LAT 36 127449°N LONG: 107 552139°W DATUM: NAD:927 NO "04 E 2660 13 NO "04 E 2660 13 NO "49 31 E 2657.69 (MEASURED) NO1 '19 27 E 2659.97 NO '35 E 2660.46 (RECORD) 614 Be LAT: 36.127464 *N LONG: 107.552746 *W DATUM: NAD1983 Nes. OOM (PECORD) NO '04 E 2650.13 O '49'31 E 2657.63 (MEASJRED) MEASURED) NOT 19 28 E 2659 97 NO 35 E 2660.46 (RECCRD) POINT-OF-ENTRY 578 FSL 1626 FEL SEC 23, T22N, R/W LAT: 36.118824 N LONG: 107.541221 W DATUM: NAD1927 (RECORD) NB9 *40 W 2590.17 89 *56 *44 W 2589.61 (MEASURED) NBB "56 44 W 2589.61" NBB "40" W 2590.17 (RECORD) LAT. 36.118840 "N LONG. 107 541828 "W DATUM: NAD1983 1626 9 330 578 . 31E 2562 77 02.28 48 E 3562 57 0EASJAED) NI6°056W 444 SURFACE LOCATION 494" FNL 1239" FEL SEC 26, T22N, R7W LAT: 36 115875"N LONG: 107.539980 W DATUM: NAD1927 NO2 '35 35 E 2662 24 NO1 "52 E 2861.78" (RECORD) 88 1254 LAT: 36.115891 *N LONG 107.540586 *W DATUM: NAD1983 NOS 26 (RECORD) NO2*31E_2662.77 02*28*48*E_2663.67** (NEASURED) NO2 35 35 E 2662.24 NO1 52 E 2661.78 (RECORD) . 20A

(MEASURED) N89 102 107 W 2546 .19

NBD *40 W 2022.18 (RECORO)

(MEASURED) NBB *55 '36 'W 2622.63 NBB *40 W 2622 16 (RECORD)

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







ENDURING RESOURCES IV, LLC 1050 SEVENTEENTH STREET, SUITE 2500 DENVER, COLORADO 80265

DRILLING PLAN:

Drill, complete, and equip single lateral in the Mancos-H formation

WELL INFORMATION:

Name: S ESCAVADA UNIT 355H

API Number: 30-043-21324 AFE Number: not yet assigned ER Well Number: not yet assigned State: New Mexico

County: Sandoval

Surface Elevation:

6,779 ft ASL (GL)

6,804 ft ASL (KB)

Surface Location: 26-22N-07W Sec-Twn-Rng

494 ft FNL

1,239 ft FEL

36.53998 ° N latitude 107.540586 ° W longitude

(NAD 83)

BH Location: 23-22N-07W Sec-Twn-Rng

1,614 ft FNL

330 ft FWL

36.127464 ° N latitude

107.552746 ° 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 48.9 miles to MM 103; Right (South) on Atkins Road for 3.2 miles to fork; Left (South) continuing on Atkins Road for 1.1 miles to 4-way intersection; Straight (south) for 1.6 miles to 4-way intersection; Straight (South) for 2.6 miles to S Escavada Unit 350H access road; Left (South) along same access road for 0.5 miles to fork; Left (East) for 0.5 miles; Left on access road for 0.5 miles to S Escavada Unit 355H Pad (Wells: 355H, 356H,

357H).

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:

| Formation Tops | TVD (ft ASL) | TVD (ft KB) | MD (ft KB) | O/G/W | Pressure |
|-----------------|--------------|-------------|------------|-------|-------------|
| Ojo Alamo | 6,180 | 624 | 624 | W | normal |
| Kirtland | 6,080 | 724 | 724 | W | normal |
| Fruitland | 5,930 | 874 | 874 | G, W | sub |
| Pictured Cliffs | 5,620 | 1,184 | 1,184 | G, W | sub |
| Lewis | 5,525 | 1,279 | 1,279 | G, W | normal |
| Chacra | 5,275 | 1,529 | 1,529 | G, W | normal |
| Cliff House | 4,185 | 2,619 | 2,630 | G, W | sub |
| Menefee | 4,180 | 2,624 | 2,635 | G, W | normal |
| Point Lookout | 3,275 | 3,529 | 3,576 | G, W | normal |
| Mancos | 3,070 | 3,734 | 3,789 | O,G | sub (~0.38) |
| Gallup (MNCS_A) | 2,805 | 3,999 | 4,065 | O,G | sub (~0.38) |
| MNCS_B | 2,700 | 4,104 | 4,174 | O,G | sub (~0.38) |
| MNCS_C | 2,620 | 4,184 | 4,257 | O,G | sub (~0.38) |
| MNCS_Cms | 2,575 | 4,229 | 4,304 | O,G | sub (~0.38) |
| MNCS_D | 2,440 | 4,364 | 4,450 | O,G | sub (~0.38) |
| MNCS_E | 2,300 | 4,504 | 4,621 | O,G | sub (~0.38) |
| MNCS_F | 2,255 | 4,549 | 4,685 | O,G | sub (~0.38) |
| MNCS_G | 2,180 | 4,624 | 4,807 | O,G | sub (~0.38) |
| MNCS_H | 2,110 | 4,694 | 4,965 | O,G | sub (~0.38) |
| P.O.E. TARGET | 2,070 | 4,734 | 5,198 | O,G | sub (~0.38) |
| PROJECTED TD | 2,050 | 4,754 | 9,699 | 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/ftEvacuated hole gradient:0.22 psi/ftMaximum anticipated BH pressure, assuming maximum pressure gradient:2,050 psiMaximum anticipated surface pressure, assuming partially evacuated hole:1,010 psi

Temperature: Maximum anticipated BHT is 130° F or less

H₂S INFORMATION:

H₂S Zones: Encountering hydrogen-sulfide bearing zones is NOT anticipated.

Safety: Sensors and alarms will be placed in the substructure, on the rig floor, above the pits, and at the shakers.

LOGGING, CORING, AND TESTING:

Mud Logs: None planned; remote geo-steering from drill out of 9-5/8" casing to TD; gas detection from drillout of 13-3/8"

casing to TD.

MWD / LWD: Gamma Ray from drillout of 13-3/8" casing to TD

Open Hole Logs: None planned

Testing: None planned **Coring:** None planned

Cased Hole Logs: CBL on 5-1/2" casing from deepest free-fall depth to surface

DRILLING RIG INFORMATION:

Contractor: Aztec Rig No.: 1000

Draw Works: E80 AC 1,500 hp

Mast: Hyduke Triple (136 ft, 600,000 lbs, 10 lines)

Top Drive: NOV IDS-350PE (350 ton)

Prime Movers: 4 - GE Jenbacher Natural Gas Generator

Pumps: 2 - RS F-1600 (7,500 psi)

BOPE 1: Cameron double & single gate rams (13-5/8", 3,000 psi)

BOPE 2: Cameron annular (13-5/8", 5,000 psi)

Choke Cameron (4", 10,000 psi)

KB-GL (ft): 25

NOTE: A different rig may be used to drill the well depending on rig availability

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.
- 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 for specifics.

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: 17-1/2"

Bit / Motor: Mill Tooth or PDC, no motor MWD / Survey: No MWD, deviation survey

Logging: None

| sing Specs: | | Wt (lb/ft) | Grade | Conn. | Collapse (psi) | Burst (psi) | Tens. Body (Ibs) | Tens. Conn |
|-------------|--------|------------|---------------|-------|----------------|-------------|---------------------|------------|
| Specs | 13.375 | 54.5 | J-55 | ВТС | 1,130 | 2,730 | 853,000 | 909,000 |
| Loading | | | DA DE LA COMP | 1 | 153 | 592 | 116,634 | 116,634 |
| Min. S.F. | | | Kalendar (| | 7.39 | 4.61 | 7.31 | 7.79 |

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):

Casi

Minumum:

Optimum: N/A Maximum:

N/A

N/A

Make-up as per API Buttress Connection running procedure.

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

Centralizers: 2 centralizers per it stop-banded 10' from each collar on bottom 3 its. 1 centralizer per 2 its to surface

Cement:

| Type | Weight (ppg) | Yield (cuft/sk) | Water (gal/sk) | Hole Cap. (cuft/ft) | % Excess | Planned TOC (ft MD) | Total Cmt (sx) |
|---------|--------------|--------------------|-------------------|------------------------|----------|------------------------|-------------------|
| Class G | 15.8 | 1.174 | 5.15 | 0.6946 | 100% | 0 | 414 |

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

Halliburton HALCEM surface cementing blend

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

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

| 350 ft (MD) | to | 2,739 ft (MD) | Hole Section Length: | 2,389 ft |
|--------------|----|----------------|----------------------|----------|
| 350 ft (TVD) | to | 2,724 ft (TVD) | Casing Required: | 2,739 ft |

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

Hole Size: 12-1/4"

Bit / Motor: PDC w/mud motor

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.

| Casing Specs: | | Wt (lb/ft) | Grade | Conn. | Collapse (psi) | Burst (psi) | Tens. Body (lbs) | Tens. Conn (lbs) |
|---------------|-----------------|---------------|-------|-------|----------------|-------------|---------------------|---------------------|
| Specs | 9.625 | 36.0 | J-55 | LTC | 2,020 | 3,520 | 564,000 | 453,000 |
| Loading | 医 以外 100 | W 18 18 18 18 | | | 1,190 | 1,166 | 185,987 | 185,987 |
| Min. S.F. | | | | | 1.70 | 3.02 | 3.03 | 2.44 |

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

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

hole and 8.4 ppg equivalent external pressure gradient

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

MU Torque (ft lbs): Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface

3,400 Minumum:

4,530

Maximum:

5.660

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

Optimum:

| | | | Yield | Water | | Planned TOC | Total Cmt |
|---------|-------------|--------------|-----------|----------|----------|-------------|-----------|
| Cement: | Туре | Weight (ppg) | (cuft/sk) | (gal/sk) | % Excess | (ft MD) | (sx) |
| Lead | G:POZ Blend | 12.3 | 1.987 | 10.16 | 70% | 0 | 615 |
| Tail | Class G | 15.8 | 1.148 | 4.98 | 20% | 2,239 | 164 |

Annular Capacity

0.3627 cuft/ft 9-5/8" casing x 13-3/8" casing annulus

0.3132 cuft/ft 9-5/8" casing x 12-1/4" hole annulus

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

Halliburton ECONOCEM & HALCEM cementing blend

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

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

| 2,739 ft (MD) | to | 9,699 ft (MD) | Hole Section Length: | 6,960 ft |
|----------------|----|----------------|----------------------|----------|
| 2,724 ft (TVD) | to | 4,754 ft (TVD) | Casing Required: | 9,699 ft |

| Estimated KOP: | 4,274 ft (MD) | 4,200 ft (TVD) |
|-----------------------------------|---------------|--|
| Estimated Landing Point (P.O.E.): | 5,198 ft (MD) | 4,734 ft (TVD) |
| Estimated Lateral Length: | 4,501 ft (MD) | State of the State |

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

Hole Size: 8-1/2"

Bit / Motor: PDC w/mud motor



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

minimum before KOP and after Landing Point)

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

Pressure Test: NU BOPE and test (as noted above); pressure test 9-5/8" casing to

1,500 psi for 30 minutes.

| | | | | | | | Tens. Body | Tens. Conn |
|---------------|-------------|-------------------|-------|-------|----------------|-------------|------------|------------|
| Casing Specs: | Size (in) | Wt (lb/ft) | Grade | Conn. | Collapse (psi) | Burst (psi) | (lbs) | (lbs) |
| Specs | 5.500 | 17.0 | P-110 | LTC | 7,460 | 10,640 | 546,000 | 445,000 |
| Loading | | Formal Artificial | | | 2,348 | 8,945 | 242,279 | 242,279 |
| Min. S.F. | error Later | | | | 3.18 | 1.19 | 2.25 | 1.84 |

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

MU Torque (ft lbs):

Minumum:

Optimum:

4,620

Maximum:

Casing Summary: Float shoe, 1 jt casing, float collar, 1 jt casing, float collar, 1 jt casing, toe-intitiation sleeve, 20' marker joint, toe-

initiation sleeve, casing to KOP with 20' marker joints spaced evenly in lateral every 2,000', floatation sub, casing to

surface. The toe-initiation sleeves must be positioned INSIDE the 330' unit setback.

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

Lateral: 1 centralizer per joint

Curve: 1 centralizer per joint from landing point to KOP

KOP to surf: 1 centralizer per 2 joints

3,470

| Cement: | Туре | Weight (ppg) | Yield (cuft/sk) | Water (gal/sk) | % Excess | Planned TOC (ft MD) | Total Cmt (sx) |
|---------|-------------|--------------|--------------------|-------------------|----------|------------------------|-------------------|
| Lead | G:POZ blend | 12.4 | 1.907 | 9.981 | 50% | 0 | 819 |
| Tail | G:POZ blend | 13.3 | 1.360 | 5.999 | 10% | 4,065 | 1,044 |

Annular Capacity

0.2691 cuft/ft 5-1/2" casing x 9-5/8" casing annulus

0.2291 cuft/ft 5-1/2" casing x 8-1/2" hole annulus

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

Halliburton ECONOCEM & EXTENDACEM cementing blend

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

Note: The lateral may be drilled outside the applicaple unit setback to maximize the length of the completed interval and to maximize resource recovery. If the well is drilled outside the setback, the toe initiation sleeve(s) and all perforations will be placed inside the setback. An unorthodox location application is not required because the completed interval will be entirely within the setback as defined and allowed by NMAC 19.15.16.7B(1), NMAC 19.15.16.14B(2), NMAC 19.15.16.15B(2) . S Escavada Unit Order Number is R-14347.

FINISH WELL: ND BOP, cap well, RDMO.

COMPLETION AND PRODUCTION PLAN:

Frac: 25 plug-and-perf stages with 150,000 bbls slickwater fluid and 7,000,000 lbs of proppant (estimated) Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assitance)

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

ESTIMATED START DATES:

Drilling: TBD Completion: TBD Production: TBD

Prepared by:

Alec Bridge

1/28/2020



WELL NAME: S ESCAVADA UNIT 355H

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

API Number: 30-043-21324 AFE Number: not yet assigned ER Well Number: not yet assigned State: New Mexico

County: Sandoval

Surface Elev.: 6,779 ft ASL (GL) Surface Location: 26-22N-07W Sec-Twn- Rng

ft ASL (KB) 494

ft FNL

ft FNL 1,239 ft FEL 330 ft FWL QUICK REFERENCE

Sur TD (MD)

Int TD (MD)

KOP (MD)

KOP (TVD)

Target (TVD)

Curve BUF

POE (MD)

Lat Len (ft)

TD (MD)

350 ft

2,739 ft

4,274 ft

4,200 ft

4,734 ft

5,198 ft

9.699 ft

4.501 ft

10 °/100 ft

BH Location: 23-22N-07W Sec-Twn- Rng 1614 Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 48.9 miles to MM 103; Right (South) on Atkins Road for 3.2 miles to fork; Left (South) conti 11 miles to 4-way intersection; Straight (south) for 1.6 miles to 4-way intersection; Straight (South) for 2.6 miles to 5 Escavada Unit 350H access road; Left (South) along same access road for 0.5 miles to fork, Left (East) for 0.5 miles; Left on access road for 0.5 miles to 5 Escavada Unit 355H Pad (Wells: 355H, 356H, 357H).

WELL CONSTRUCTION SUMMARY:

| | Hole (in) | TD MD (ft) | Csg (in) | Csg (lb/ft) | Csg (grade) | Csg (conn) | Csg Top (ft) | Csg Bot (ft) |
|--------------|-----------|------------|----------|-------------|-------------|------------|--------------|--------------|
| Surface | 17.500 | 350 | 13.375 | 54.5 | 1-55 | BTC | 0 | 350 |
| Intermediate | 12.250 | 2,739 | 9.625 | 36.0 | 1-55 | LTC | 0 | 2,739 |
| Production | 8.500 | 9,699 | 5.500 | 17.0 | P-110 | LTC | 0 | 9,699 |

CEMENT PROPERTIES SUMMARY:

| | Туре | Wt (ppg) | Yd (cuft/sk) | Wtr (gal/sk) | Hole Cap. (cuft/ft) | % Excess | TOC (ft MD) | Total (sx) |
|---------------|-------------|----------|--------------|--------------|------------------------|----------|----------------|------------|
| Surface | Class G | 15.8 | 1.174 | 5.15 | 0.6946 | 100% | 0 | 414 |
| Inter. (Lead) | G:POZ Blend | 12.3 | 1.987 | 10.16 | 0.3627 | 70% | 0 | 615 |
| Inter. (Tail) | Class G | 15.8 | 1.148 | 4.98 | 0.3132 | 20% | 2,239 | 164 |
| Prod. (Lead) | G:POZ blend | 12.4 | 1.907 | 9.981 | 0.2691 | 50% | 0 | 819 |
| Prod. (Tail) | G:POZ blend | 13.3 | 1.360 | 5.999 | 0.2291 | 10% | 4,065 | 1,044 |

COMPLETION / PRODUCTION SUMMARY:

Frac: 25 plug-and-perf stages with 150,000 bbls slickwater fluid and 7,000,000 lbs of proppant (estimated) Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assitance) Production: Produce through production tubing via gas-lift into permanent production and storage facilities

TVD (ft KB) MD (R KB) 624 724 874 874 Pictured Cliffs 1.184 1.184 1,279 1,279 Chacra 1.529 1,529 Cliff House 2.619 2 630 Menefee 2.624 2.635 int Laakout 3 529 3,576 Mancos 3.734 3.789 Gallup (MNCS_A) 3,999 4.065 MNCS B 4.104 4.174 MNCS_C 4,257 4,184 MNCS_Cms 4,304 4,229 MNCS_D 4,364 4,450 4,621 MNCS_F 4,685 MNCS_G 4,624 4,807 4,694 4,965 MNCS_H P.O.E. TARGET 4,734 5,198 PROJECTED TO 4,754 9,699



Enduring Resources LLC

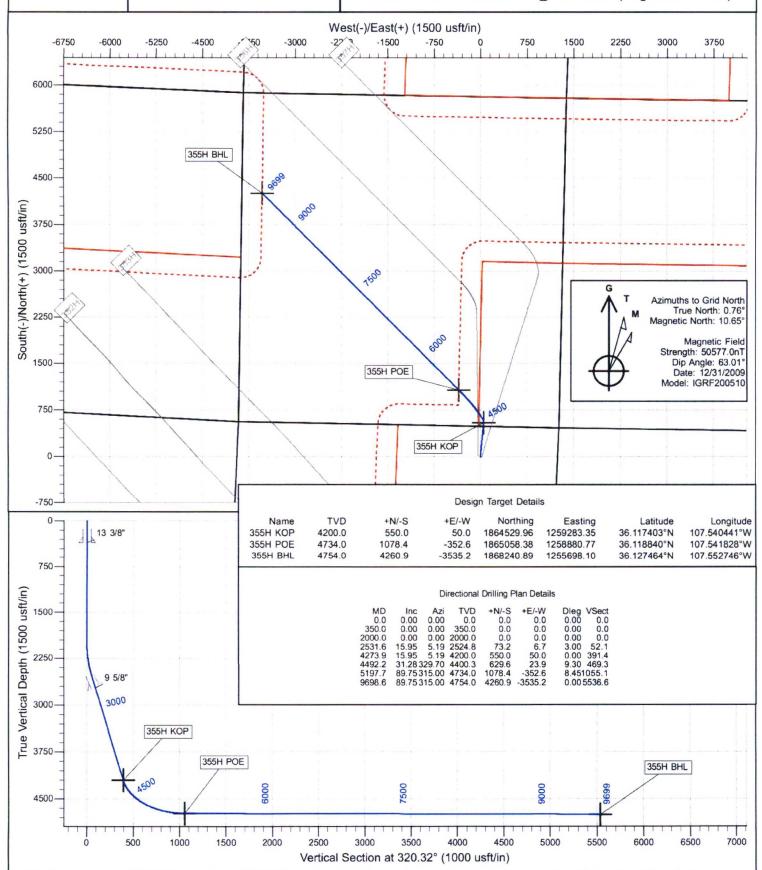
Directional Drilling Plan Plan View & Section View

S Escavada Unit 355H

Sandoval County, New Mexico T22N - R07W - Sec.26 - Lot A Surface Latitude: 36.115891°N

Surface Longitude: 107.540586°W Ground Level: 6779.0

Reference Elevation: KB @ 6804.0usft (Original Well Elev)





Enduring Resources LLC

San Juan Basin - S Escavada Unit & Terra Wash CA 355H Pad 355H

Wellbore #1

Plan: Design #1

Standard Planning Report

28 January, 2020



Database:

EDM

Company:

Enduring Resources LLC

Project:

Site:

San Juan Basin - S Escavada Unit & Terra

Wash CA 355H Pad

Well: Wellbore: Design:

355H Wellbore #1 Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well 355H

KB @ 6804.0usft (Original Well Elev) KB @ 6804.0usft (Original Well Elev)

North Reference:

Survey Calculation Method:

Grid

Minimum Curvature

Project

San Juan Basin - S Escavada Unit & Terra Wash CA

Map System:

US State Plane 1983 North American Datum 1983 System Datum:

Mean Sea Level

Geo Datum: Map Zone:

New Mexico Central Zone

Site

From

355H Pad, Sandoval County, New Mexico

Site Position:

Lat/Long

Northing: Easting:

1,863,979.96 usft

Latitude:

36.115891°N

Position Uncertainty:

0 0 usft Slot Radius:

1.259,233 35 usft 13-3/16" Longitude:

Grid Convergence:

107 540586°W

-0.76 °

Well Well Position 355H

+N/-S

+E/-W

0 0 usft

Northing: 0 0 usft Easting:

1 863 979 96 usft 1,259,233.35 usft Latitude Longitude:

36 115891°N 107.540586°W

Position Uncertainty

0 0 usft

Wellhead Elevation:

12/31/2009

Ground Level:

6,779 0 usft

Wellbore

Wellbore #1

Magnetics

Model Name

IGRF200510

Sample Date

Declination (°) 9.89 Dip Angle 63.01 Field Strength (nT)

50,577.04311208

Design

Design #1

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.0

Vertical Section:

Depth From (TVD) (usft) 0.0

+N/-S (usft) 0.0

+E/-W (usft) 0.0

Direction (") 320.32

Plan Survey Tool Program

Date 1/28/2020

Depth From (usft)

Depth To (usft)

Survey (Wellbore)

Tool Name

0.0

9,698.6 Design #1 (Wellbore #1)

MWD

OWSG MWD - Standard

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
|-----------------------------|-----------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|----------|
| 00 | 0.00 | 0 00 | 0.0 | 0.0 | 0.0 | 0.00 | 0 00 | 0.00 | 0.00 | |
| 350.0 | 0 00 | 0 00 | 350 0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2.000 0 | 0.00 | 0.00 | 2,000 0 | 0 0 | 0.0 | 0.00 | 0 00 | 0.00 | 0.00 | |
| 2,531 6 | 15.95 | 5 19 | 2.524 8 | 73.2 | 6.7 | 3 00 | 3.00 | 0.00 | 5 19 | |
| 4.273.9 | 15.95 | 5.19 | 4.200.0 | 550 0 | 50.0 | 0.00 | 0.00 | 0 00 | 0.00 | 355H KOP |
| 4,492.2 | 31 28 | 329.70 | 4,400.3 | 629 6 | 23.9 | 9 30 | 7.02 | -16 26 | -60.35 | |
| 5,197.7 | 89.75 | 315 00 | 4.734.0 | 1,078 4 | -352.6 | 8.45 | 8 29 | -2.08 | -17.11 | 355H POE |
| 9.698.6 | 89.75 | 315 00 | 4.754.0 | 4.260.9 | -3,535 2 | 0.00 | 0.00 | 0.00 | 0.00 | 355H BHL |



Database:

EDM

Company: Project:

Site:

Enduring Resources LLC

San Juan Basin - S Escavada Unit & Terra

Wash CA 355H Pad

Well: Wellbore: Design:

355H Wellbore #1 Design #1

Local Co-ordinate Reference: TVD Reference:

MD Reference:

North Reference: Survey Calculation Method:

KB @ 6804.0usft (Original Well Elev) KB @ 6804.0usft (Original Well Elev)

Grid

Minimum Curvature

| Measured | | | Vertical | | | Vertical | Dogleg | Build | Turn |
|----------------|-------------|---------|----------|--------|------------|--------------|-------------|-------------|-------------|
| Depth | Inclination | Azimuth | Depth | +N/-S | +E/-W | Section | Rate | Rate | Rate |
| (usft) | (°) | (°) | (usft) | (usft) | (usft) | (usft) | (°/100usft) | (°/100usft) | (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100 0 | 0.00 | 0 00 | 100.0 | 0.0 | 0.0 | 0.0 | 0 00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300 0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 350.0 | 0.00 | 0 00 | 350 0 | 0.0 | 0.0 | 0.0 | 0.00 | 0 00 | 0.00 |
| 13 3/8" | 0.00 | 0 00 | 330 0 | 0.0 | 0.0 | 0.0 | 0 00 | 0.00 | 0.00 |
| | 0.00 | 0.00 | 100.0 | 2.2 | 0.0 | 2.2 | 0.00 | 0.00 | 2.22 |
| 400 0 | 0.00 | 0.00 | 400 0 | 0 0 | 0.0 | 0.0 | 0.00 | 0 00 | 0.00 |
| 500 0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 624 0 | 0.00 | 0 00 | 624.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0 00 | 0 00 |
| Ojo Alamo | | | | | | | | | |
| 700.0 | 0 00 | 0 00 | 700 0 | 0.0 | 0.0 | 0 0 | 0 00 | 0 00 | 0.00 |
| 724 0 | 0 00 | 0 00 | 724 0 | 0.0 | 0.0 | 0.0 | 0 00 | 0.00 | 0.00 |
| Kirtland | | | | | | | | | |
| 800.0 | 0 00 | 0 00 | 800 0 | 0 0 | 0.0 | 0.0 | 0.00 | 0 00 | 0.00 |
| 874 0 | 0.00 | 0 00 | 874.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0 00 | 0.00 |
| Fruitland | | | | | | | | | |
| 900.0 | 0 00 | 0.00 | 900.0 | 0 0 | 0.0 | 0.0 | 0.00 | 0 00 | 0.00 |
| 1,000.0 | 0 00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1.100 0 | 0.00 | 0.00 | 1.100.0 | 0.0 | 0.0 | 0.0 | 0 00 | 0 00 | 0.00 |
| 1,184.0 | 0 00 | 0 00 | 1,184.0 | 0 0 | 0.0 | 0 0 | 0.00 | 0.00 | 0.00 |
| Pictured Cliff | | 0 00 | .,104.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200 0 | 0 00 | 0 00 | 1,200 0 | 0.0 | 0.0 | 0.0 | 0 00 | 0.00 | 0.00 |
| 1,279.0 | 0.00 | 0 00 | 1,279 0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| Lewis | 0.00 | 0 00 | 1,2/30 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,300 0 | 0 00 | 0 00 | 1,300.0 | 0.0 | 0.0 | 0.0 | 0 00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 1,400.0 | 0 00 | 0 00 | 1,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1.500 0 | 0 00 | 0 00 | 1,500.0 | 0 0 | 0.0 | 0.0 | 0.00 | 0 00 | 0.00 |
| 1.529 0 | 0 00 | 0 00 | 1,529.0 | 0 0 | 0.0 | 0.0 | 0 00 | 0.00 | 0.00 |
| Chacra | | | | | | | | | |
| 1.600 0 | 0 00 | 0 00 | 1,600.0 | 0.0 | 0.0 | 0.0 | 0 00 | 0.00 | 0.00 |
| 1.700 0 | 0 00 | 0 00 | 1,700 0 | 0.0 | 0.0 | 0.0 | 0 00 | 0.00 | 0.00 |
| 1.800 0 | 0 00 | 0 00 | 1,800 0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,900 0 | 0 00 | 0 00 | 1,900 0 | 0.0 | 0.0 | 0.0 | 0 00 | 0.00 | 0.00 |
| 2.000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 0.0 | 0 00 | 0.00 | 0.00 |
| 2,100 0 | 3 00 | 5 19 | 2.100 0 | 2.6 | 0.2 | 1.9 | 3 00 | 3.00 | 0.00 |
| 2,200 0 | 6 00 | 5 19 | 2.199.6 | 10.4 | 0.9 | 74 | 3.00 | 3.00 | 0.00 |
| | | | | | | | | | |
| 2.300.0 | 9.00 | 5.19 | 2.298 8 | 23.4 | 2.1 | 16.7 | 3.00 | 3.00 | 0.00 |
| 2,400.0 | 12 00 | 5.19 | 2.397 1 | 41.6 | 3.8 | 29 6 | 3 00 | 3 00 | 0 00 |
| 2,500.0 | 15.00 | 5.19 | 2,494.3 | 64 8 | 5.9 | 46.1 | 3.00 | 3.00 | 0.00 |
| 2,531 6 | 15.95 | 5 19 | 2.524 8 | 73.2 | 6 7 8 4 | 52.1 65.4 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 15.95 | 5.19 | 2,590.5 | | | | | | |
| 2,629.6 | 15.95 | 5.19 | 2.619.0 | 100 0 | 9.1 | 71.2 | 0.00 | 0.00 | 0.00 |
| Cliff House | | | | | | | | | |
| 2.634.8 | 15 95 | 5 19 | 2.624 0 | 101.5 | 9 2 | 72 2 | 0.00 | 0.00 | 0.00 |
| Menefee | | | | | | | | | |
| 2.700 0 | 15.95 | 5 19 | 2.686 7 | 119.3 | 108 | 84 9 | 0.00 | 0.00 | 0.00 |
| 2,738.8 | 15 95 | 5.19 | 2.724 0 | 129 9 | 11.8 | 92 4 | 0.00 | 0.00 | 0.00 |
| 9 5/8" | | | | | | | | | |
| 2,800 0 | 15 95 | 5.19 | 2.7828 | 146 7 | 13.3 | 104 4 | 0 00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 2,900.0 | 15 95 | 5.19 | 2.879 0 | 174 0 | 15.8 | 123 8 | 0.00 | 0.00 | 0.00 |



Database:

EDM

Company: Project: Enduring Resources LLC

San Juan Basin - S Escavada Unit & Terra

Wash CA 355H Pad

Well: Wellbore: Design:

Site:

355H Wellbore #1 Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well 355H

KB @ 6804 Ousft (Original Well Elev) KB @ 6804.0usft (Original Well Elev)

Grid

Minimum Curvature

Planned Survey

| San Park Barrier | | | | | | | | | |
|-------------------|-------------|---------|-----------------------|---------|--------|----------|-------------|-------------|-------------|
| Measured | | 1 | Vertical | | | Vertical | Dogleg | Build | Turn |
| Depth | Inclination | Azimuth | Depth | +N/-S | +E/-W | Section | Rate | Rate | Rate |
| (usft) | (°) | (°) | (usft) | (usft) | (usft) | (usft) | (°/100usft) | (°/100usft) | (°/100usft) |
| 3,100.0 | 15.95 | 5.19 | 3,071.3 | 228 8 | 20.8 | 162.8 | 0.00 | 0 00 | 0.00 |
| 3,200 0 | 15.95 | 5 19 | 3,167.4 | 256 1 | 23.3 | 182.2 | 0.00 | 0 00 | 0.00 |
| 3,300.0 | 15 95 | 5.19 | 3,263 6 | 283 5 | 25 8 | 201.7 | 0.00 | 0.00 | 0.00 |
| 3,400 0 | 15 95 | 5.19 | 3,359.7 | 310.8 | 28 3 | 221.2 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 15 95 | 5.19 | 3.455 9 | 338.2 | 30.7 | 240.7 | 0.00 | 0.00 | 0.00 |
| 3,576 0 | 15 95 | 5.19 | 3.529.0 | 359 0 | 32.6 | 255.5 | 0.00 | 0.00 | 0.00 |
| Point Looko | | 0.10 | 0.020.0 | 0000 | 02.0 | 200.0 | 0.00 | 0.00 | 0.00 |
| 3.600.0 | 15.95 | 5.19 | 3,552.0 | 365.6 | 33 2 | 260.1 | 0.00 | 0 00 | 0.00 |
| 3.700.0 | 15 95 | 5 19 | 3.648 2 | 392 9 | 35.7 | 279.6 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 3,789.3 | 15 95 | 5.19 | 3,734.0 | 417.4 | 37.9 | 297.0 | 0.00 | 0.00 | 0.00 |
| Mancos | | | | | | | | | |
| 3,800 0 | 15.95 | 5.19 | 3.744.3 | 420.3 | 38.2 | 299.1 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 15 95 | 5 19 | 3.840.5 | 447 7 | 40 7 | 318.5 | 0.00 | 0 00 | 0.00 |
| 4,000.0 | 15.95 | 5.19 | 3,936.6 | 475.0 | 43.2 | 338 0 | 0.00 | 0.00 | 0.00 |
| 4.064.9 | 15 95 | 5.19 | 3,999.0 | 492 8 | 44.8 | 350.6 | 0.00 | 0.00 | 0 00 |
| Gallup (MNC | .5 A) | | | | | | | | |
| 4,100 0 | 15.95 | 5 19 | 4,032.8 | 502 4 | 45 7 | 357.5 | 0.00 | 0 00 | 0.00 |
| 4,174 1 | 15 95 | 5 19 | 4,104.0 | 522 7 | 47.5 | 371.9 | 0.00 | 0.00 | 0.00 |
| MNCS_B | | | | | | | | | |
| 4.200 0 | 15 95 | 5.19 | 4,128 9 | 529 8 | 48.2 | 377.0 | 0.00 | 0 00 | 0 00 |
| 4.257.3 | 15 95 | 5.19 | 4.184 0 | 545 4 | 496 | 388.1 | 0.00 | 0.00 | 0.00 |
| MNCS_C | | | | | | | | | |
| 4.273 9 | 15 95 | 5 19 | 4,200 0 | 550 0 | 50.0 | 391.4 | 0.00 | 0.00 | 0.00 |
| 4.300 0 | 17 28 | 358 08 | 4.225 0 | 557 4 | 50 2 | 397.0 | 9.30 | 5 08 | -27.28 |
| 4,304.2 | 17.51 | 357 04 | 4.229.0 | 558 7 | 50 1 | 398.0 | 9.30 | 5 59 | -24.86 |
| MNCS_Cms | 17.51 | 337.04 | 7,225.0 | 556 / | 30.1 | 350.0 | 3.30 | J 33 | -24.00 |
| 4.400.0 | 23 96 | 339.42 | 4,318 6 | 591 4 | 42 5 | 428.0 | 9.30 | 6.74 | -18.39 |
| 4,450.4 | 27 88 | 333 52 | 4,364 0 | 611.5 | 33 7 | 449.1 | 9.30 | 7.78 | -11 70 |
| MNCS_D | 27 00 | 333 32 | 4,504 0 | 311.3 | 33 / | 440.1 | 3.50 | 1.70 | -11.70 |
| 4.492 2 | 31 28 | 329 70 | 4,400 3 | 629 6 | 23 9 | 469 3 | 9.30 | 8 13 | -9 15 |
| | | | | | | | | | |
| 4,500.0 | 31.91 | 329 33 | 4,407.0 | 633.2 | 21.8 | 473.4 | 8.45 | 8.08 | -4.70 |
| 4.600 0 | 40 07 | 325 55 | 4.487.8 | 682.5 | -10.0 | 531 6 | 8 45 | 8 15 | -3.78 |
| 4,621.4 | 41 83 | 324.91 | 4,504 0 | 694 1 | -18.0 | 545.6 | 8.45 | 8.21 | -3.01 |
| MNCS_E 4.684.5 | 47 02 | 323 24 | 4.549 0 | 729 7 | -43 9 | 589 6 | 8 45 | 8 24 | -2 64 |
| | 47 02 | 323 24 | 4.549 0 | 129 / | -43 9 | 209.0 | 0 45 | 0 24 | -2 04 |
| MNCS_F 4.700 0 | 40 24 | 222.07 | 4 559 5 | 738 9 | -50 8 | 601.1 | 8.45 | 8.27 | -2.36 |
| | 48 31 | 322.87 | | | | | | | |
| 4,800.0 | 56 60 | 320 81 | 4 620 4 | 801 2 | -99 8 | 680.3 | 8.45 | 8.29 | -2.06 |
| 4,806.6 | 57 15 | 320 69 | 4 624 0 | 805 5 | -103.3 | 685.9 | 8.45 | 8.31 | -1 84 |
| MNCS_G | | | and the second second | - | | | | | |
| 4,900.0 | 64 91 | 319 11 | 4.669 2 | 867 9 | -155.9 | 767 5 | 8 45 | 8.32 | -1 69 |
| 4,965.2 | 70 35 | 318.12 | 4,694.0 | 913 1 | -195 8 | 827.7 | 8.45 | 8.33 | -1.51 |
| MNCS_H | | | | | | | | | |
| 5,000 0 | 73.25 | 317.63 | 4,704.9 | 937 6 | -217.9 | 860.7 | 8.45 | 8.34 | -1.43 |
| 5,100.0 | 81 59 | 316.27 | 4.726 6 | 1,008 8 | -284.5 | 958.1 | 8 45 | 8.34 | -1.36 |
| 5,197.7 | 89.75 | 315.00 | 4,734 0 | 1,078.4 | -352.6 | 1,055.1 | 8.45 | 8.35 | -1 30 |
| 5.200.0 | 89.75 | 315 00 | 4.734.0 | 1.080 0 | -354.2 | 1.057 4 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 89.75 | 315 00 | 4.734 5 | 1,150 8 | -424.9 | 1,156 9 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 89.75 | 315 00 | 4.734 9 | 1,221 5 | -495.6 | 1,256.5 | 0.00 | 0.00 | 0.00 |
| 5,500 0 | 89 75 | 315 00 | 4,735.3 | 1,292 2 | -566.3 | 1,356.1 | 0.00 | 0.00 | 0 00 |
| 5,600.0 | 89.75 | 315.00 | 4,735.8 | 1,362.9 | -637.1 | 1,455.6 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 89.75 | 315.00 | 4,736.2 | 1,433 6 | -707.8 | 1,555.2 | 0.00 | 0.00 | 0 00 |



Database:

EDM

Company: Project: Enduring Resources LLC

San Juan Basin - S Escavada Unit & Terra

Wash CA 355H Pad

Well: Wellbore: Design:

Site:

355H Wellbore #1 Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well 355H

KB @ 6804.0usft (Original Well Elev)

KB @ 6804.0usft (Original Well Elev)

Grid

Minimum Curvature

Planned Survey

| Measured | | | Vertical | | | Vertical | Dogleg | Build | Turn |
|----------|-------------|---------|----------|---------|----------|----------|-------------|-------------|-------------|
| Depth | Inclination | Azimuth | Depth | +N/-S | +E/-W | Section | Rate | Rate | Rate |
| (usft) | (°) | (°) | (usft) | (usft) | (usft) | (usft) | (°/100usft) | (°/100usft) | (°/100usft) |
| 5,800.0 | 89 75 | 315 00 | 4,736 7 | 1,504.3 | -778.5 | 1,654.8 | 0.00 | 0 00 | 0.00 |
| 5,900 0 | 89 75 | 315 00 | 4,737 1 | 1,575 0 | -849.2 | 1.754.3 | 0 00 | 0 00 | 0.00 |
| 6,000 0 | 89.75 | 315.00 | 4,737.6 | 1,645.7 | -919.9 | 1,853.9 | 0 00 | 0.00 | 0.00 |
| 6,100 0 | 89 75 | 315.00 | 4.738 0 | 1,716.4 | -990.6 | 1,953.5 | 0.00 | 0 00 | 0 00 |
| 6.200 0 | 89 75 | 315.00 | 4,738 5 | 1,787.1 | -1.061.3 | 2,053.1 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 89.75 | 315.00 | 4,738 9 | 1,857.8 | -1.132.0 | 2,152.6 | 0.00 | 0.00 | 0.00 |
| 6,400 0 | 89 75 | 315 00 | 4,739 3 | 1,928 5 | -1,202.7 | 2.252 2 | 0.00 | 0 00 | 0.00 |
| 6,500.0 | 89.75 | 315.00 | 4,739 8 | 1,999 3 | -1,273.5 | 2,351.8 | 0.00 | 0.00 | 0.00 |
| 6,600 0 | 89 75 | 315 00 | 4.740 2 | 2,070.0 | -1,344.2 | 2,451.3 | 0.00 | 0 00 | 0.00 |
| 6,700.0 | 89.75 | 315.00 | 4.740 7 | 2,140.7 | -1,414.9 | 2,550.9 | 0.00 | 0 00 | 0.00 |
| 6,800 0 | 89.75 | 315.00 | 4.741 1 | 2,211.4 | -1,485.6 | 2,650.5 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 89 75 | 315 00 | 4,741.6 | 2.282 1 | -1,556.3 | 2,750.0 | 0.00 | 0 00 | 0.00 |
| 7,000.0 | 89 75 | 315.00 | 4.742 0 | 2.352 8 | -1,627.0 | 2.849 6 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 89.75 | 315.00 | 4.742 5 | 2,423 5 | -1,697.7 | 2,949.2 | 0.00 | 0 00 | 0.00 |
| 7.200.0 | 89.75 | 315.00 | 4,742.9 | 2,494.2 | -1.768 4 | 3.048 7 | 0 00 | 0 00 | 0.00 |
| 7,300.0 | 89.75 | 315.00 | 4.743 3 | 2,564 9 | -1,839.2 | 3,148.3 | 0.00 | 0 00 | 0 00 |
| 7,400.0 | 89.75 | 315.00 | 4,743.8 | 2,635.6 | -1,909 9 | 3,247.9 | 0.00 | 0 00 | 0.00 |
| 7,500.0 | 89 75 | 315 00 | 4,744.2 | 2.706 3 | -1,980.6 | 3,347 4 | 0.00 | 0.00 | 0 00 |
| 7,600.0 | 89.75 | 315.00 | 4,744.7 | 2,777 0 | -2,051.3 | 3,447.0 | 0.00 | 0.00 | 0.00 |
| 7.700.0 | 89 75 | 315.00 | 4.745.1 | 2,847.8 | -2.122.0 | 3,546.6 | 0.00 | 0.00 | 0 00 |
| 7.800 0 | 89 75 | 315.00 | 4,745 6 | 2.918.5 | -2.1927 | 3,646 1 | 0 00 | 0 00 | 0.00 |
| 7,900.0 | 89.75 | 315.00 | 4,746.0 | 2,989.2 | -2,263.4 | 3,745.7 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 89.75 | 315.00 | 4.746.5 | 3,059 9 | -2.334.1 | 3,845 3 | 0 00 | 0.00 | 0 00 |
| 8.100 0 | 89.75 | 315.00 | 4.746.9 | 3,130.6 | -2,404.8 | 3,944.9 | 0 00 | 0.00 | 0.00 |
| 8,200 0 | 89 75 | 315.00 | 4.747 3 | 3,201.3 | -2,475.6 | 4.044 4 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 89 75 | 315 00 | 4.747 8 | 3,272.0 | -2.546.3 | 4.144.0 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 89.75 | 315 00 | 4,748.2 | 3.342.7 | -2,617.0 | 4,243 6 | 0.00 | 0.00 | 0.00 |
| 8,500 0 | 89 75 | 315 00 | 4.748.7 | 3.413.4 | -2.687.7 | 4,343.1 | 0.00 | 0.00 | 0.00 |
| 8,600 0 | 89.75 | 315.00 | 4,749.1 | 3,484 1 | -2.758.4 | 4,442.7 | 0.00 | 0.00 | 0.00 |
| 8,700 0 | 89 75 | 315 00 | 4.749.6 | 3,554.8 | -2,829.1 | 4,542.3 | 0.00 | 0.00 | 0.00 |
| 8.800 0 | 89 75 | 315 00 | 4.750.0 | 3,625.5 | -2.899.8 | 4,641 8 | 0.00 | 0.00 | 0.00 |
| 8.900 0 | 89 75 | 315 00 | 4.750 5 | 3,696.2 | -2.970.5 | 4.741.4 | 0 00 | 0.00 | 0.00 |
| 9,000 0 | 89 75 | 315 00 | 4.750 9 | 3.767.0 | -3,041.3 | 4,841 0 | 0.00 | 0.00 | 0.00 |
| 9.100 0 | 89 75 | 315 00 | 4.751 3 | 3,837.7 | -3,112.0 | 4,940 5 | 0.00 | 0.00 | 0.00 |
| 9.200.0 | 89 75 | 315 00 | 4,751 8 | 3,908 4 | -3,182.7 | 5,040.1 | 0.00 | 0.00 | 0.00 |
| 9.300 0 | 89.75 | 315 00 | 4,752.2 | 3,979.1 | -3.253.4 | 5,139.7 | 0 00 | 0 00 | 0.00 |
| 9.400.0 | 89 75 | 315.00 | 4.752 7 | 4.049 8 | -3,324 1 | 5.239 2 | 0.00 | 0.00 | 0.00 |
| 9.500.0 | 89.75 | 315.00 | 4,753.1 | 4,120.5 | -3,394.8 | 5,338.8 | 0.00 | 0.00 | 0.00 |
| 9.600 0 | 89 75 | 315 00 | 4.753.6 | 4,191.2 | -3,465.5 | 5.438 4 | 0.00 | 0.00 | 0.00 |



EDM

Company:

Enduring Resources LLC

Project:

Site:

San Juan Basin - S Escavada Unit & Terra

Wash CA 355H Pad

Well: Wellbore: Design:

355H Wellbore #1 Design #1

Local Co-ordinate Reference: TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well 355H

KB @ 6804.0usft (Original Well Elev) KB @ 6804.0usft (Original Well Elev)

Grid

Minimum Curvature

| Design Targets | | | | | | | | | |
|--|---------------|----------|---------------|-----------------|-----------------|--------------------|-------------------|-------------|--------------|
| Target Name - hit/miss target - Shape | Dip Angle | Dip Dir. | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| 355H KOP - plan hits target ce - Point | 0 00 enter | 360.00 | 4,200.0 | 550.0 | 50 0 | 1,864,529 96 | 1,259,283 35 | 36.117403°N | 107 540442°V |
| 355H POE - plan hits target of - Point | 0 00 enter | 0 00 | 4,734.0 | 1.078.4 | -352 6 | 1,865,058,38 | 1,258,880 76 | 36 118840°N | 107.541828°V |
| 355H BHL - plan hits target ce - Point | 0.00 enter | 0 00 | 4.754.0 | 4.260 9 | -3.535 2 | 1,868,240 90 | 1.255,698 10 | 36 127464°N | 107 552746°W |

| Casing Points | | | | | | | |
|---------------|-----------------------------|-----------------------------|---------|------|---------------------------|-------------------------|--|
| | Measured Depth (usft) | Vertical Depth (usft) | | Name | Casing Diameter (") | Hole Diameter (") | |
| | 350.0 | 350 0 | 13 3/8" | | 13-3/8 | 17-1/2 | |
| | 2.738.8 | 2.724 0 | 9 5/8" | | 9-5/8 | 12-1/4 | |

| ns | | | |
|-------------------|-------------------|-----------------|-------------------|
| Measured Depth | Vertical Depth | | Dip Direction |
| (usft) | (usft) | Name | Lithology (°) (°) |
| 624.0 | 624.0 | Ojo Alamo | 0.00 |
| 724.0 | 724 0 | Kirtland | 0 00 |
| 874 0 | 874.0 | Fruitland | 0.00 |
| 1,184.0 | 1,184 0 | Pictured Cliffs | 0.00 |
| 1.279.0 | 1,279.0 | Lewis | 0 00 |
| 1,529 0 | 1,529.0 | Chacra | 0.00 |
| 2.629 6 | 2.619.0 | Cliff House | 0.00 |
| 2,634 8 | 2,624.0 | Menefee | 0.00 |
| 3,576.0 | 3,529.0 | Point Lookout | 0.00 |
| 3,789.3 | 3,734.0 | Mancos | 0.00 |
| 4.064.9 | 3,999.0 | Gallup (MNCS A) | 0 00 |
| 4,174.1 | 4,104.0 | MNCS_B | 0.00 |
| 4,257.3 | 4,184.0 | MNCS_C | 0.00 |
| 4.304.2 | 4,229.0 | MNCS_Cms | 0 00 |
| 4,450.4 | 4.364.0 | MNCS_D | 0 00 |
| 4,621.4 | 4,504.0 | MNCS_E | 0 00 |
| 4.684.5 | 4.549.0 | MNCS_F | 0 00 |
| 4,806.6 | 4.624.0 | MNCS_G | 0 00 |
| 4.965.2 | 4.694.0 | MNCS H | 0 00 |