

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No.	
b. Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Zones <input type="checkbox"/> Hydraulic Fracturing Other: _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator		7. Unit or CA Agreement Name and No.	
3. Address		8. Well Name and Well No.	
3a. Phone No. (Include area code)		9. API Well No.	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface At top prod. interval reported below At total depth		10. Field and Pool or Exploratory	
		11. Sec., T., R., M., on Block and Survey or Area	
		12. County or Parish	13. State
14. Date Spudded	15. Date T.D. Reached	16. Date Completed <input type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod.	17. Elevations (DF, RKB, RT, GL)*
18. Total Depth: MD TVD	19. Plug Back T.D.: MD TVD	20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each)		22. Was well cored? <input type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)	

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled

24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals			26. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)						
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org when required by state or federal regulation

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org as applicable

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			➔						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			➔						

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			➔						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			➔						

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth

32. Additional remarks (include plugging procedure).

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)
 Geologic Report
 DST Report
 Directional Survey
 Sundry Notice for plugging and cement verification
 Core Analysis
 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) _____ Title _____
 Signature _____ Date _____

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.

INSTRUCTIONS

GENERAL: This form is designed for submitting a complete and correct well completion/recompletion report and log on all types of wells on Federal and Indian leases to a Federal agency, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal office. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal office for specific instructions.

ITEM 17: Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

ITEM 23: Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48 (d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. et seq.; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is to be used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.

ROUTINE USES: (1) Evaluate the equipment and procedures used during the drilling and completing/recompleting of a well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/recompleted.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/recompleting wells on Federal and Indian oil and gas leases.

This information will be used to analyze operations and to compare equipment and procedures actually used with those proposed and approved.

Response to this request is mandatory only if the operator elects to initiate drilling and completing/recompleting operations on an oil and gas lease.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Information

Location information: 00S1

SHL: NWNW / LOT: 4 / 180 FNL / 644 FWL / TWSP: 22S / RNG: 32E / SEC: 2 / LAT: 32.427525 / LONG: -103.651868

KOP: NWNW / LOT: 4 / 395 FNL / 397 FWL / TWSP: 22S / RNG: 32E / SEC: 2 / LAT: 32.426931 / LONG: -103.652666

PPP: SWNW / 2536 FNL / 320 FWL / TWSP: 21S / RNG: 32E / SEC: 35 / LAT: 32.435303 / LONG: -103.652862

PPP: SWSW / 0 FSL / 358 FWL / TWSP: 21S / RNG: 32E / SEC: 35 / LAT: 32.428053 / LONG: -103.652792

PPP: SWSW / 104 FSL / 359 FWL / TWSP: 21S / RNG: 32E / SEC: 35 / LAT: 32.428302 / LONG: -103.652792

EXIT: NWSW / 2489 FSL / 314 FWL / TWSP: 21S / RNG: 32E / SEC: 26 / LAT: 32.449382 / LONG: -103.652923

BHL: NWSW / LOT: L / 2489 FSL / 314 FWL / TWSP: 21S / RNG: 32E / SEC: 26 / LAT: 32.449382 / LONG: -103.652923

Additional Cement Segments for Casings: 00S1

Hole Size: 12.25, Size/Grade: 9.625 / HCL-80, Wt. (#ft): 40, Top (MD): 0, Bottom (MD): 3781
Cementing/Segment - Stage Cementer Depth: null, No of Sk: 0.0, Type of Cement: DiPoz+C, Slurry
Vol BBL: 1123, Cement Lead Top: 0.0, Amount Pulled: null

Cementing/Segment - Stage Cementer Depth: null, No of Sk: 0.0, Type of Cement: DiPoz+C, Slurry
Vol BBL: 1123, Cement Lead Top: 0.0, Amount Pulled: null

Hole Size: 12.25, Size/Grade: 9.625 / HCL-80, Wt. (#ft): 40, Top (MD): 3781, Bottom (MD): 4796

Summary of Porous Zones Information:

Formation: LOWER BRUSHY CANYON 8A, Descriptions, Contents, etc: null, Bottom: 8464

Formation: AVALON SAND, Descriptions, Contents, etc: null, Bottom: 8897

Formation: BONE SPRING 1ST, Descriptions, Contents, etc: null, Bottom: 9837

Formation: BONE SPRING 2ND, Descriptions, Contents, etc: null, Bottom: 10483

Attachments: 00S1

Log Attachments:

- 1) Anderson_Fed_Com_501H___As_Drilled_WBS_20221116123841.pdf
- 2) C_102_ANDERSON_FED_COM_501H_AS DRILLED_20221116123852.pdf
- 3) Anderson_Fed_Com_501H_1_inch_MudLog_20221028065751.pdf
- 4) Anderson_Fed_Com_501H_1_Inch_MD_Gamma___FINAL_20221028065709.pdf

5) Advance_Energy___Anderson_Fed_Com_501H___Final_MWD_Svys_20221028065506.pdf

6)

Advance_Energy_Partners___Anderson_Fed_Com_501H___End_of_Well_Summary_20221028070000.pdf

7) Anderson_Fed_Com_501H_FINAL_SVY_RPT_20221116123812.pdf

API: 30-025-48891



Anderson Fed Com #501H

REGULATORY: NM Federal

BONE SPRING

OGRID # 372417

AFE: NM0183

AS-DRILLED

RIG: Nabors X50

WELLHEAD

Sec. 2; T- 22S; R- 32E, 180' FNL; 644' FWL

KB: 3724.5'

13-3/8" x 9-5/8" x 5-1/2"

SHL:

Lat: 32.427525

Long: -103.651868

NAD83

GL: 3692'

MNDS

HOLE	MD	FORMATION	TVD	MUD	CASING	CEMENT	SPECIAL INSTRUCTIONS	
17 1/2"	120'	20" Conductor	120'	SPUD MW 8.4 ppg	13-3/8" 54.5 J-55 BTC 0' - 1273'	Top of Lead: Surface 12.8 ppg 50% Excess 520 sks Top of Tail: 1,018 14.8 ppg 20% Excess 215sks	MUD: Fresh water only CTS: 70 bbls (206 sx)	
	1,218	Rustler	1,218	FRESH				
12 1/4"	1,273	SURF CSG PT	1,217	DRLOUT MW 10 ppg	COMPLETE STRING 9-5/8" 40# J-55 BTC 0' - 3781'	2 STAGE CEMENT LEAD: 12.8 ppg 1105 sks 107% Excess TAIL: 15.6 ppg Top of Tail 3,835 310 sks 20% Excess	DV & PKR & FLOAT EQUIPMENT CTS: 110 bbls	
	3,071	DV Tool & Packer	3,070	BRINE	9-5/8" 40# HCL-80 BTC 3781' - 4796'	1st STAGE LEAD: ppg Top of Lead 0 Not Pumped 96% Excess TAIL: ppg Top of Tail 2580 Not Pumped 0% Excess		
8-3/4"	4,746	Base of Limestone	4,745	TD MW <10.5 ppg	5-1/2" 20# HCP-110 GBCD 0' - 18437'	2nd STAGE LEAD: ppg Top of Lead 0 Not Pumped 96% Excess TAIL: ppg Top of Tail 2580 Not Pumped 0% Excess	CTS: 200 bbls	
	4,796	INTRM CSG PT	4,736	DRLOUT MW 9 ppg		Top of Lead: Surface 10.7 ppg 50% Excess 955 sks Top of Tail: 10,111 14.5 ppg 20% Excess 2125 sks		
8-3/4"	8,464	Lower Bushy	8,453	CUT BRINE				
	8,897	Avalon	8,885	KOP MW 9.2 ppg				
8-3/4"	9,910	KOP	9,898	CUT BRINE EOC MW 9.5 ppg				
	9,837	1st BS Sand	9,822					
8-3/4"	10,483	2nd Bone Spring	10,377					
	10,728	EOC	10,456					
12"/100				Marker Jts @: 9923' & 14607'				
EOC VS = 301' Lat. Azi = VS Azi. 357.73 deg				Est BHST = 215 F Est BHCT = 179 F				
LATERAL				5-1/2" 20# HCP-110 GBCD				BHL: 2489' FNL 314' FWL
				NO FLOTATION SUB ALL PREMIUM CONNECTIONS 5.5" Wet Shoe (1) Guide Shoe				LTP: LAT 32.449382 LON -103.652923

DIRECTIONS TO LOCAITON:

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720

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

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

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 4, 2011

Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT
As Drilled

API Number 30-025-48891	Pool Code 51683	Pool Name RED TANK;BONE SPRING
Property Code 326484	Property Name ANDERSON FED COM	Well Number 501H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA, LLC	Elevation 3692'

Surface Location

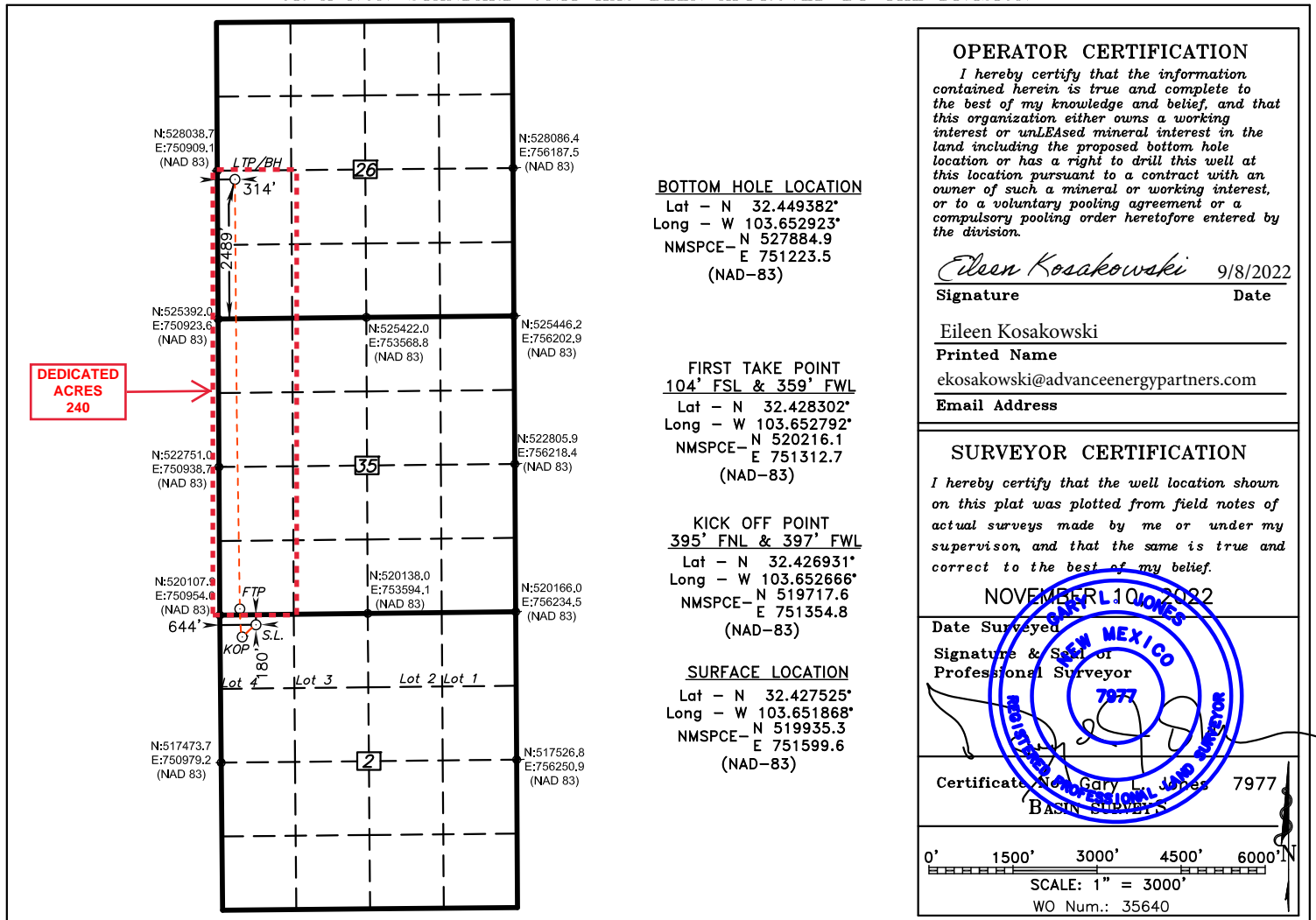
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
LOT 4	2	22 S	32 E		180	NORTH	644	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
L	26	21 S	32 E		2489	SOUTH	314	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
240		C	

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





**MEASURED DEPTH
FORMATION EVALUATION
& GAS ANALYSIS
LOG**
1" - 100'

COUNTY Lea County
FIELD Red Tank Bone Spring
LOCATION 180 FNL & 710 FWL SEC 2 T22S R32E
26 miles w of Eunice, NM
WELL Anderson Fed Com 501H
COMPANY Advance Energy Partners Hat Mesa, LLC

COMPANY Advance Energy Partners Hat Mesa, LLC
GEOLOGIST Victoria D. Pena
WELL Anderson Fed Com 501H
FIELD Red Tank Bone Spring
COUNTY Lea County STATE New Mexico
LOCATION
Lat: 32.427526
Long: -103.651654
API SERIAL NO 30-025-48891 SEC 2 TWP 22S RANGE 32E
OTHER SERVICES 5" MD Log

SPUD DATE _____ TOTAL DEPTH _____ ELEV: _____
LOGGING STARTED 02/01/2022 @ 9.970' K.B. 3697.5'
LOGGING FINISHED _____ @ _____ D.F. 25.5'
_____ @ _____ G.L. 3672'

BORE HOLE RECORD		CASING RECORD				
HOLE SIZE	FROM	TO	SIZE	WGT.	FROM	TO
7.5"	Surface	1282'	13.375"	54.5#	Surface	1282'
2.25"	Surface	4735'	9.625"	40#	Surface	4735'
1.75"	4735'					

DRILLING CONTRACTOR Nabors
PERMITS X50
REMARKS Job # 6197
PERSONNEL Shanman Ash / David Brock / Lesley M. Land / Robert Pitterman

Disclaimer: STRATAGRAPH, INC. will make every effort to render our services efficiently and accurately, but will not be liable for failure to report or interpret its analysis correctly.

LEGEND

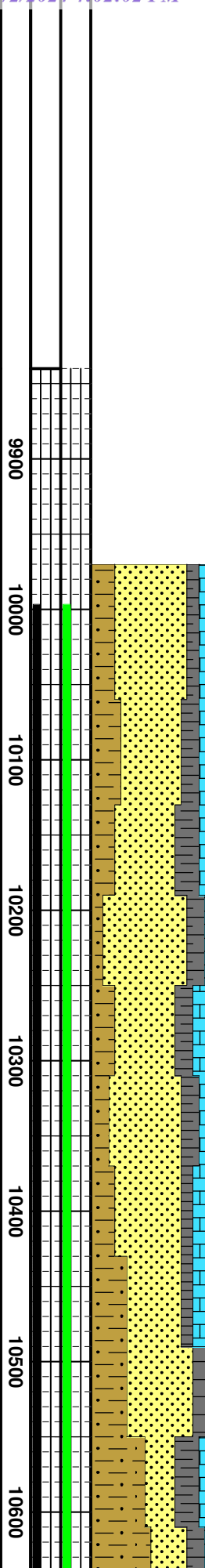
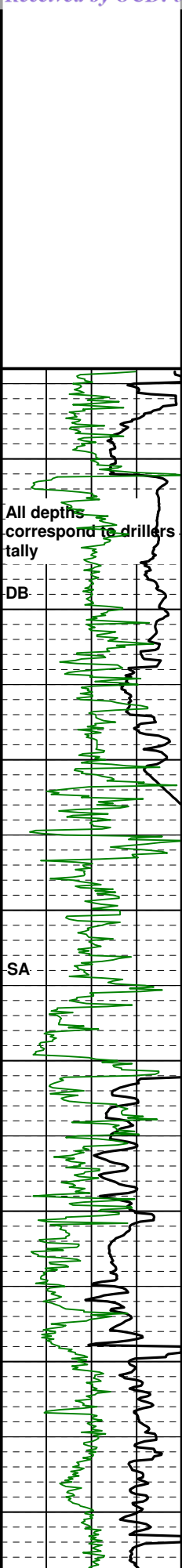
Abbreviations BG Background Gas CB Corebit CG Connection Gas CK Filter Cake CKF Check For Flow CL Salinity ppm CO Circulate Out CR Circulate Returns CT Carbide Test DB Diamond Bit DBG Drilling Background Gas DC Depth correction DCB Diamond Corebit DF Derrick Floor DG Drilling Gas DS Directional Survey DST Drill Stem Test EL Electric Log E.M.A. Equivalent Methane Gas F Filtrates API cc's F/T Flowline Temperature FR Fair FV Funnel Viscosity API sec GCM Gas Cut Mud GCW Gas Cut Water GD Good G&OCM Gas & Oil Cut Mud GL Ground Level GTT Gas Trip Test KB Kelley bushing LAT Log After Trip		LAST Log After Short Trip MW Mud Weight in lbs/gal NCB New Corebit NB New Bit NR No Returns PDCB Polycrystalline Diamond Compact Bit PERF Perforated PPM Parts Per Million PR Poor PRT Poor Returns PV Plastic Viscosity RM Mud Resistivity OHM-METER RMC Mud-Cake Resistivity OHM-METER RMF Mud Filtrate Resistivity RPM Revolutions Per Minute RRB Return Bit RT Rotary Table SF Sea Floor SO Show Of Oil SOL Solids % SPP Stand Pipe Pressure STG Short Trip Gas SWG Swab Gas SVG Survey Gas S/T Suction Temperature TB Turbo Drill TD Total Depth TCL Trip Chlorides TG Trip Gas TVD Total Vertical Depth WOB Weight On Bit		Lithology Symbols CLAY MARL SILT LIMESTONE LIMONITE GYPSUM DOLOMITE ANHYDRITE CHERT SALT COAL SHALE SAND CHALK ASH NO SAMPLE		Other Symbols CASING SEAT CORED INTERVAL NO RECOVERY SIDEWALL CORE TEST INTERVAL WIRELINE TEST Oil Show Gas Show FLUORESCENCE Bright Dull Mineral TRACE FAIR GOOD	
---	--	---	--	---	--	---	--

NOTE: All Lithological Symbols are as per the Shell Oil Exploration Training Manual, Acknowledged by the American Association of Petroleum Geologists.

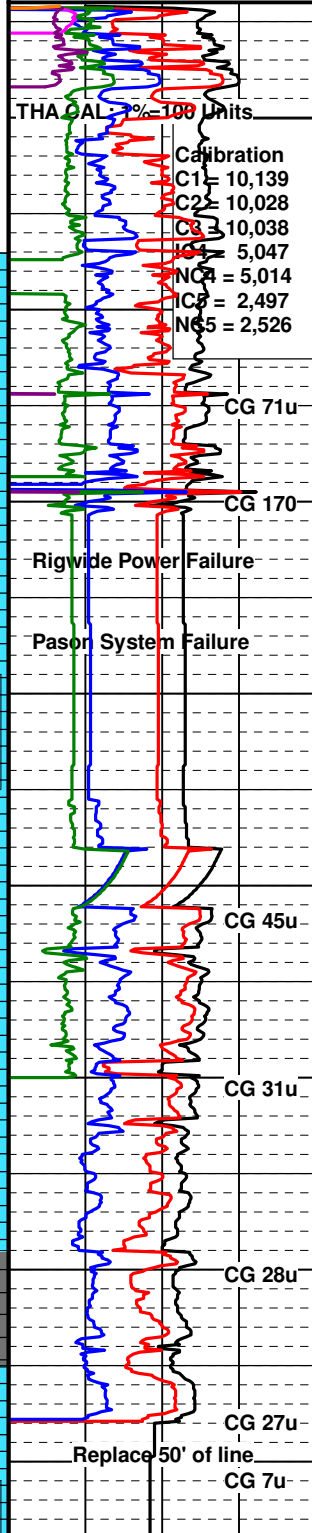
Slide	ROP		Depth	Cut	Fluor	% Lith	Total Gas/Chromo		Drilling Parameters & Surveys	Descriptions	Images
	Average ROP	FPH					Total Gas	Unit			
	300		0			0.1		1000			
							Methane				

Received by CCB 5/2/2024 4:02:02 PM

Released to Imaging: 5/4/2026 3:14:00 PM



10	Ethane	PPM	100000
10	Propane	PPM	100000
10	Iso-Butane	PPM	100000
10	Normal Butane	PPM	100000
10	Iso-Pentane	PPM	100000
10	Normal Pentane	PPM	100000



Stratagraph began logging @ 9,970' MD on 2/1/2022 @ 5:00 PM
 KOP @ 9,970' MD
 MWI 9.2
 MWO 9.2

MD 9983' Inc 14° Azm 352°
 TVD 9967' VS -195.29

WOB 50 RPM 148
 SPM 186 PP 1527

MD 10073' Inc 23.16° Azm 348.06° TVD 10052.59' VS -166.94

MWI 9.2
 MWO 9.2

MD 10162' Inc 28° Azm 348°
 TVD 10132.8' VS -129.07

WOB 36 RPM 135
 SPM 205 PP 1706

MD 10252' Inc 36° Azm 347°
 TVD 10208.9' VS -81.88

MWI 9.2
 MWO 9.2

MD 10341' Inc 38° Azm 352°
 TVD 10279.7' VS -28.48

WOB 55 RPM 141
 SPM 178 PP 1656

MD 10431' Inc 47° Azm 357°
 TVD 10346.1' VS 32.12

MWI 9.2
 MWO 9.2

MD 10520' Inc 60° Azm 0°
 TVD 10398.8' VS 103.54

WOB 28 RPM 198
 SPM 205 PP 1859

MD 10610' Inc 73° Azm 0°
 TVD 10434.3' VS 185.96

MWI 9.2
 MWO 9.25

CG 71u

CG 170

Rigwide Power Failure

Pason System Failure

CG 45u

CG 31u

CG 28u

CG 27u

CG 7u

Replace 50' of line

Repair Gas Trap

SST: lt tan - tan, cm, bf, lt gry - gry, lt brn - brn, vf - f grn, sub rncd - sub ang, mod hrd - v hrd, well - v well srtd, mostly calct cmnt w occ sil cmnt, sm arg ip, no vis fluor, no cut or show

LS: off wht - wht, blk - wht - gry mott, vf - f xln, sub blk - sub ang, mod hrd - hrd, sm arg ip, rgh, dns, sm sh inclus, sm vis fract por, tr - 5% brt yl - gn fluor, slow blming blu - wht dry cut, fair brt yl res ring

SLT: gry- drk gry, sub rnd, sl sft - frm, tr hrd, arg, calc cmnt, occ calc incl, consol, tr dull yel flour, strm br yel - grn cut, yel res rng

SH: pred med - dk gry, mod frm- sl hd ip, blk - sb plty, v slty, vf lam, dull yel flour, fst strm yel - grn cut, yel-grn res rng

SST: drk gry - med gry, vf gr, w srt, sb rnd- sb ang, calc cmnt, arg mtx ip, tr dull yel - grn fluor, slw strmg bri yel - grn cut, thk br yel res rng

LS: wkst - mdst, gry, hd - frm, v f xln - microxln, dl - ea, dns, occ arg, lam, dull yel, stmg yel-grn cut, yel res rng

SLT: gry- drk gry, sb rnd- rnd, sl sft - frm, tr hrd, arg/cly mtx, calc cmnt ip, consol, tr dull yel flour, strm br yel - grn cut, fnt wht - yel res rng

SH: pred med-dk gry, sl frm- v frm, blk - sb plty, v slty, vf lam, tr dull yel flour, sl strmg yel - grn cut, fnt yel-grn res rng

SST: drk gry - med gry, occ brnsh gry, vf gr, w srt, sb rnd- sb ang, calc cmnt, arg mtx ip, tr dull yel flour, slw strmg yel - grn cut, fnt yel res rng

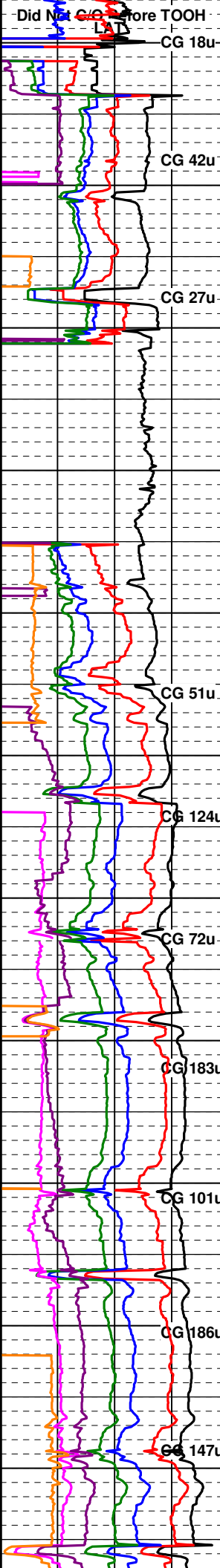
LS: wkst - mdst, gry, frm- sl hd, v f xln - microxln, dl, dns, mod arg, lam i.p., dull yel, stmg yel-grn cut, yel res rng

SLT: gry- drk gry, sb rnd- rnd, sl sft - frm, tr sl hd, arg mtx, calc cmnt, mod consol, tr dull yel flour, sl strm yel - grn cut,



02/03/22
NB #2 @ 10735'

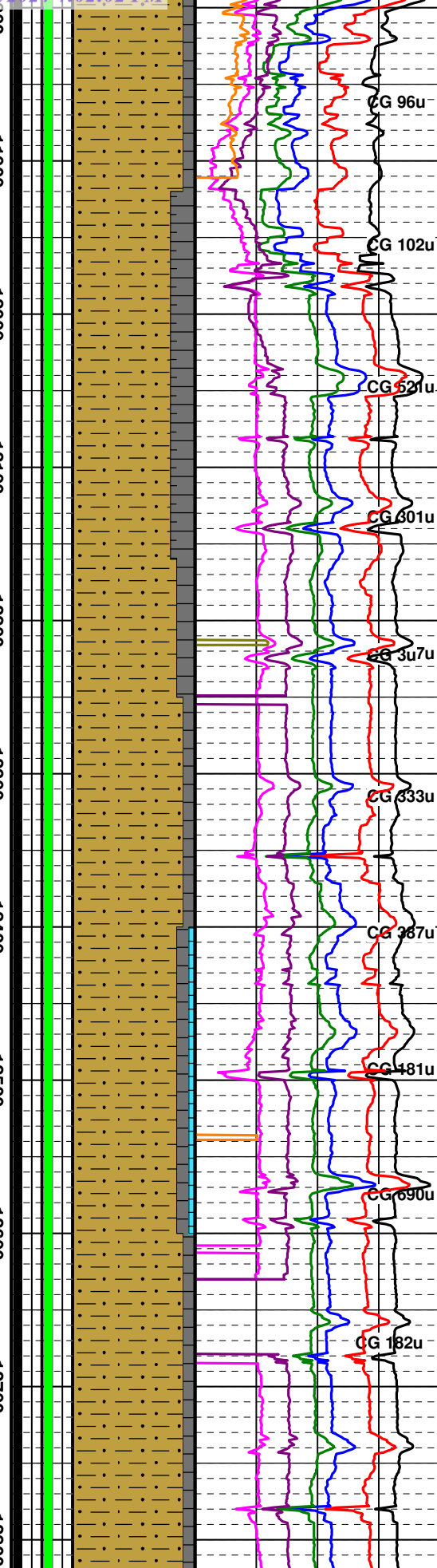
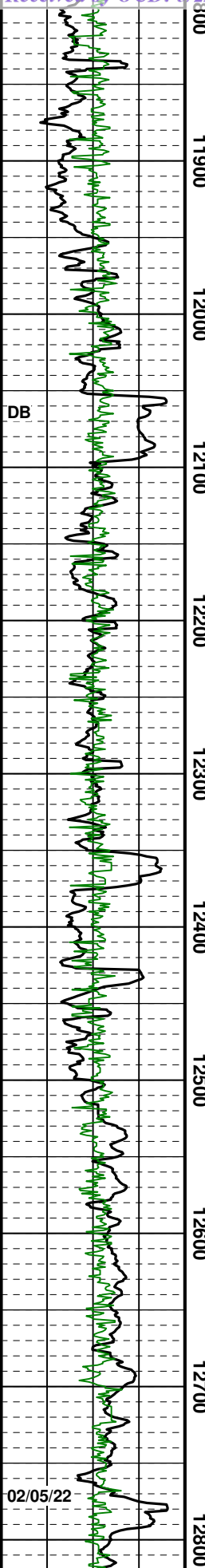
700
10800
10900
11000
11100
11200
11300
11400
11500
11600
11700



Did Not C.O. before TOOH
 MD 10678' Inc 79° Azm 359°
 TVD 10450.4' VS 251.92
 MD 10728' Inc 88° Azm 360°
 TVD 10456' VS 301.52
**C.O. TRP, LANDED
 CURVE @ 10742' ON
 02/03/22
 Displaced to OBM on
 02/03/22**
 MWI 9.5
 MWO 9.6
 MD 10818' Inc 94° Azm 358°
 TVD 10454.5' VS 391.43
 MWI 9.5
 MWO 9.55
 MD 10907' Inc 91° Azm 358°
 TVD 10450.3' VS 480.32
**TOOH, Could not C.O. past
 10914' MD @ 11051' ON
 02/03/22**
 WOB 46k RPM 236
 SPM 239 PP 4245
 MD 10997' Inc 94° Azm 357°
 TVD 10446.4' VS 570.23
 MWI 9.6
 MWO 9.6
 MD 11086' Inc 93° Azm 359°
 TVD 10440.7' VS 659.04
 MWI 9.6
 MWO 9.7
 CG 51u
 MD 11176' Inc 87° Azm 359°
 TVD 10440.1' VS 748.96
 WOB 46k RPM 201
 SPM 239 PP 4384
 MD 11265' Inc 87° Azm 357°
 TVD 10444.6' VS 837.83
 MWI 9.6
 MWO 9.7
 CG 72u
 MD 11355' Inc 89° Azm 359°
 TVD 10447.8' VS 927.76
 WOB 49k RPM 201
 SPM 239 PP 4470
 CG 183u
 MD 11444' Inc 88° Azm 358°
 TVD 10449.7' VS 1016.72
 MWI 9.6
 MWO 9.7
 CG 101u
 MD 11534' Inc 92° Azm 359°
 TVD 10449.5' VS 1106.69
 WOB 36k RPM 211
 SPM 239 PP 4300
 CG 186u
 MD 11624' Inc 93° Azm 358°
 TVD 10446.1' VS 1196.6
 MWI 9.6
 MWO 9.7
 CG 147u
 MD 11713' Inc 91° Azm 2°
 TVD 10443.3' VS 1285.43
 WOB 46k RPM 222

fnt yel res rng
 SH: pred med-dk gry, sl frm - v
 frm, blk-y- sb pty, v slty, vf
 lam, tr dull yel flour, sl strmg
 yel - grn cut, fnt yel-grn res rng
 LS: wkst - mdst, gry, frm- sl
 hd, v f xln - microxln, dl, dns,
 mod arg, lam i.p., dull yel,
 stmg yel-grn cut, yel res rng
 SLT: Mudst, lt bn - bn, lt tan -
 tan, cm, bf, lt gry - gry, vf - f grn,
 mod hrd - v hrd, tr pyr (dism), tr
 micfoss, tr dul gn - yl flour, mod
 blming - tr strming blu - wht dry
 cut, fair brt yl res ring
 LS: wkst - mdst, gry, frm- sl
 hd, v f xln - microxln, dl, dns,
 mod arg, lam i.p., dull yel,
 stmg yel-grn cut, yel res rng
 MD 10914' MD @ 11051' ON
 LS: wkst - mdst, gry-dk gry, hd,
 v f xln - microxln, dl - ea, dns,
 occ arg, lam, dull yel, stmg
 yel-grn cut, yel res rng
 SLT: Mudst, lt bn - bn, lt tan -
 tan, cm, bf, lt gry - gry, vf - f grn,
 mod hrd - v hrd, tr pyr (dism), tr
 micfoss, tr dul gn - yl flour, mod
 blming - tr strming blu - wht dry
 cut, fair brt yl res ring
 LS: mdst - wackst, lt - dk gry,
 pred med gry, microxln - vf xln,
 arg ip, faint yel flour, slw
 diffuse yel-grn cut, yel-grn res
 rng
 SH: dk gry - grysh blk, frm -
 mod hd, sb tab - sb blk - blk,
 occ slty, non calc, v dull
 yel-grn flour, mod fst stmg
 grn-yel cut, bri yel-grn res rng
 SLT: lt gry - bf, rnd - sub ang,
 abd sft - occ frm, arg, calc
 cmnt, slty, abd intbd mica, abd
 calc incl, wl consol, dull yel -
 grn flour, fst strm br yel - grn
 cut
 LS: mdst - wackst, lt - dk gry,
 pred med gry, microxln - vf xln,
 arg ip, faint yel flour, slw diffuse
 yel-grn cut, yel-grn res rng
 SLT: lt gry - bf, rnd - sub ang,
 abd sft - occ frm, arg, calc cmnt,
 slty, abd intbd mica, abd calc
 incl, wl consol, dull yel - grn
 flour, fst strm br yel - grn cut
 LS: mud-wacke stn, wh tn lt
 gry drk gry, mic- vf xln,
 mas-succ, arg ip, aren ip, no
 fluor, no cut
 SLT: lt-dk gy, slit- vf grn, w srt,
 sb rnd-rnd, sl hd, arg mtx, lmy
 incl, 10% dull yel- grn flour,
 med strmg cut, thk br yel resd
 rng
 SH: drk gry gry blk, frm-mod
 hd, pty blk, aren ip, calc, no
 fluor, no cut
 SLT: wh lt-dk gy, slit- vf grn, w
 srt, sb rnd-rnd, sl hd, arg mtx,
 lmy incl, 10% dull yel- grn
 flour, med strmg cut, thk br yel
 resd rng
 SH: drk gry gry blk, frm-mod
 hd, pty blk, aren ip, calc, no
 fluor, no cut
 SLT: lt-dk gy, slit- vf grn, w srt,
 sb rnd-rnd, sl hd, arg mtx, lmy
 incl, 10% dull yel- grn flour,
 med strmg cut, thk br yel resd





MD 11803' Inc 91° Azm 2°
TVD 10441.4' VS 1375.13

MWI 9.65
MWO 9.65

WOB 46k RPM 222
SPM 255 PP 4899

MD 12072' Inc 90° Azm 360°
TVD 10433.4' VS 1643.49

MWI 9.65
MWO 9.7

MD 12161' Inc 90° Azm 359°
TVD 10433.4' VS 1732.44

WOB 55k RPM 212
SPM 240 PP 4323

MD 12251' Inc 91° Azm 358°
TVD 10433.3' VS 1822.42

MWI 9.5
MWO 9.6

MD 12340' Inc 92° Azm 360°
TVD 10431.5' VS 1911.37

WOB 46k RPM 213
SPM 240 PP 4386

MD 12430' Inc 89° Azm 0°
TVD 10430.8' VS 2001.28

MWI 9.5
MWO 9.65

MD 12519' Inc 89° Azm 0°
TVD 10432.5' VS 2090.17

WOB 46k RPM 213
SPM 240 PP 4318

MD 12609' Inc 91° Azm 0°
TVD 10433.1' VS 2180.07

MD 12698' Inc 92° Azm 360°
TVD 10431.1' VS 2268.96

MWI 9.5
MWO 9.65

MD 12787' Inc 91° Azm 359°
TVD 10429' VS 2357.88

WOB 45k RPM 212
SPM 240 PP 4306

SH: drk gry gry blk, frm-mod hd, plty blk, aren ip, calc, no fluor, no cut

SLT: lt-dk gy, slit-vf grn, w srt, sb rnd-rnd, sl hd, arg mtz, lmy incl, 10% dull yel-grn fluor, med strmg cut, thk br yel resd rng

SH: drk gry gry blk, frm-mod hd, plty blk, aren ip, calc, no fluor, no cut

SLT: lt-dk gy, slit-vf grn, w srt, sb rnd-rnd, sl hd, arg mtz, lmy incl, 10% dull yel-grn fluor, med strmg cut, thk br yel resd rng

SH: drk gry gry blk, frm-mod hd, plty blk, aren ip, calc, no fluor, no cut

SLT: lt-dk gy, slit-vf grn, w srt, sb rnd-rnd, mod hrd - fri, arg mtz, lmy incl, 10% dull orgn - yl fluor, mod strmg cut, thk br yel resd rng

SH: drk gry gry blk, frm-mod hd, plty blk, aren ip, calc, no fluor, no cut

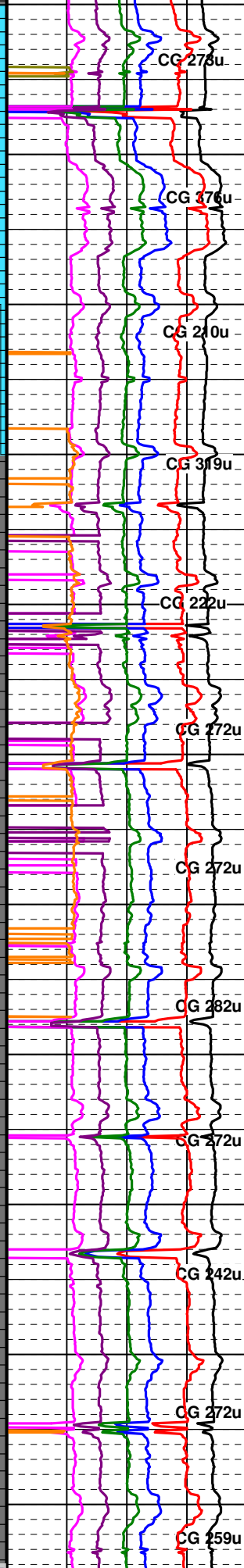
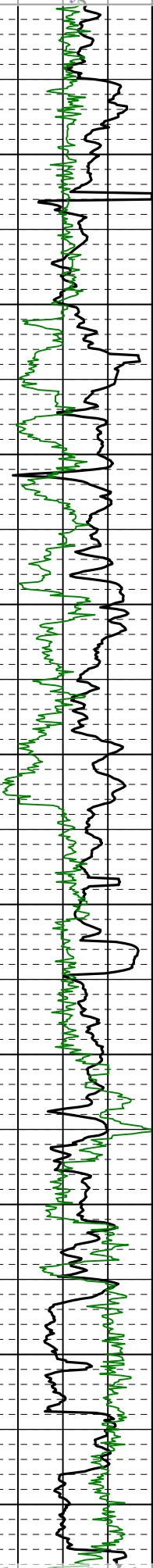
LS: mdst - wackst, lt - dk gry, pred med gry, microxln - vf xln, arg ip, faint yel fluor, slw diffuse yel-grn cut, yel-grn res rng

SLT: lt-dk gy, slit-vf grn, w srt, sb rnd-rnd, mod hrd - fri, arg mtz, lmy incl, 10% dull orgn - yl fluor, mod strmg cut, thk br yel resd rng

SH: drk gry gry blk, frm-mod hd, plty blk, aren ip, calc, no fluor, no cut



1300
13000
13100
13200
13300
13400
13500
13600
13700
13800
13900



MD 12877' Inc 90° Azm 359°
TVD 10428.4' VS 2447.84

MWI 9.5 MWO
9.6

CG 275u

MD 12966' Inc 93° Azm 358°
TVD 10425.8' VS 2536.77

WOB 46k RPM 212
SPM 239 PP 4205

CG 376u

MD 13055' Inc 95° Azm 357°
TVD 10419.3' VS 2625.53

MWI 9.45 MWO 9.45

CG 210u

MD 13145' Inc 94° Azm 359°
TVD 10412' VS 2715.22

WOB 45k RPM 212
SPM 239 PP 4116

CG 319u

MD 13234' Inc 95° Azm 359°
TVD 10404.6' VS 2803.87
MWO 9.45

CG 222u

MD 13323' Inc 92° Azm 359°
TVD 10399' VS 2892.62

WOB 50k RPM 200
SPM 238 PP 3957

CG 172u

MD 13413' Inc 92° Azm 358°
TVD 10396.3' VS 2982.55

MWI 9.4 MWO 9.45

CG 272u

MD 13502' Inc 93° Azm 358°
TVD 10393' VS 3071.48

WOB 44k RPM 211
SPM 238 PP 4230

CG 282u

MD 13591' Inc 91° Azm 359°
TVD 10390' VS 3160.42

MWI 9.4 MWO 9.4

CG 272u

MD 13680' Inc 92° Azm 357°
TVD 10387.8' VS 3249.38

WOB 46k RPM 210
SPM 238 PP 4232

CG 242u

MD 13769' Inc 92° Azm 356°
TVD 10384.8' VS 3338.31

MWI 9.5 MWO 9.4

CG 272u

MD 13859' Inc 93° Azm 358°
TVD 10380.5' VS 3428.2

WOB 47k RPM 210
SPM 238 PP 4406

CG 259u

MD 13949' Inc 94° Azm 360°
TVD 10375.1' VS 3518

SLT: lt-dk gy, slit-vf grn, w srt, sb rnd-rnd, mod hrd - fri, arg mtx, lmy incl, 10% dull org - yl fluor, mod strmg cut, thk br yel resd rng

SH: lt bn - dk bn, lt gry - dk gry, sub rndd - amorph, calc carb ip, smooth - sli aren text, mod firm - soft, tr nod calct, 5% brk gn - dul org fluor, good milky wht intant dry cut, good brt yl res ring, sm vis degassing

SLT: lt-dk gy, slit-vf grn, w srt, sb rnd-rnd, mod hrd - fri, arg mtx, lmy incl, 10% dull org - yl fluor, mod strmg cut, thk br yel resd rng

LS: Mudst, lt tan - tan, cm, bf, lt gry - gry, vf - mi xln, sub blkly - sub ang, mod hrd v hrd, dns, arg ip, sm vis calct filled fract, 5% dul org - brt yl fluor, good brt yl strming dry cut, good brt yl res ring

SLT: lt-dk gy, slit-vf grn, w srt, sb rnd-rnd, mod hrd - fri, arg mtx, lmy incl, 10% dull org - yl fluor, mod strmg cut, thk br yel resd rng

SH: drk gry gry blk, frm-mod hd, plty blkly, aren ip, calc, no fluor, no cut

SLT: lt-dk gy, slit-vf grn, w srt, sb rnd-rnd, mod hrd - fri, arg mtx, lmy incl, 10% dull org - yl fluor, mod strmg cut, thk br yel resd rng

SH: drk gry gry blk, frm-mod hd, plty blkly, aren ip, calc, no fluor, no cut

SLT: lt-dk gy, slit-vf grn, w srt, sb rnd-rnd, mod hrd - fri, arg mtx, lmy incl, 5% dull org - yl fluor, mod strmg cut, thk br yel resd rng

SH: drk gry gry blk, frm-mod hd, plty blkly, aren ip, calc, no fluor, no cut

SLT: dk gy, slit-vf grn, w srt, sb ang-sb rnd, mod hrd - fri, arg mtx, lmy incl, 5% dull org - yl fluor, mod strmg cut, thk br yel resd rng

SH: drk gry gry blk, frm-mod hd, plty blkly, aren ip, calc, no fluor, no cut

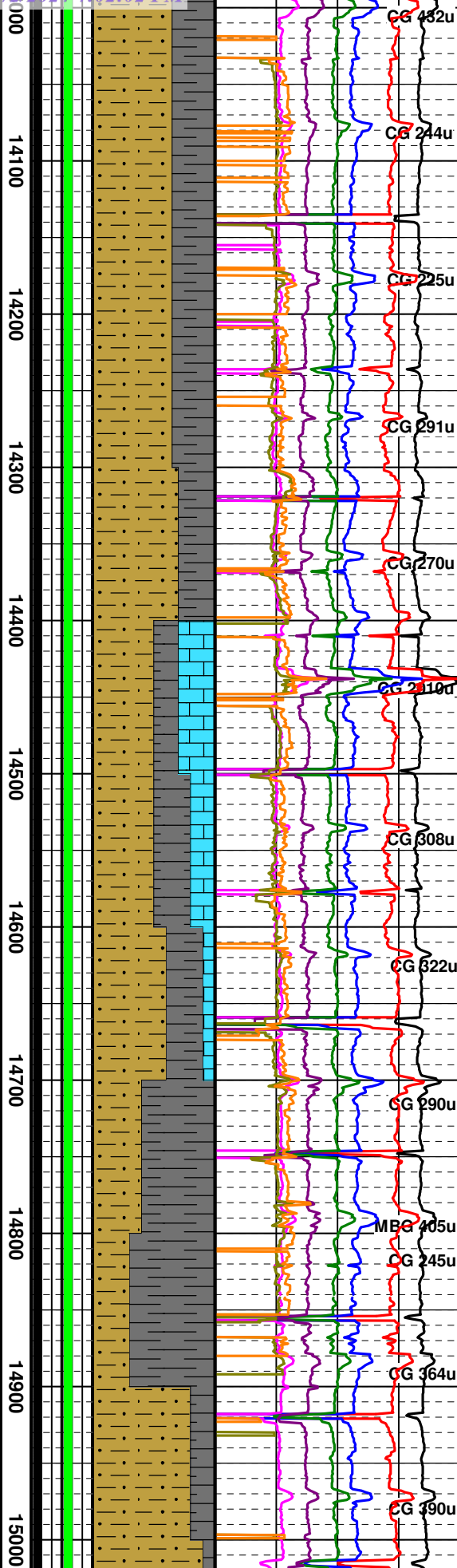
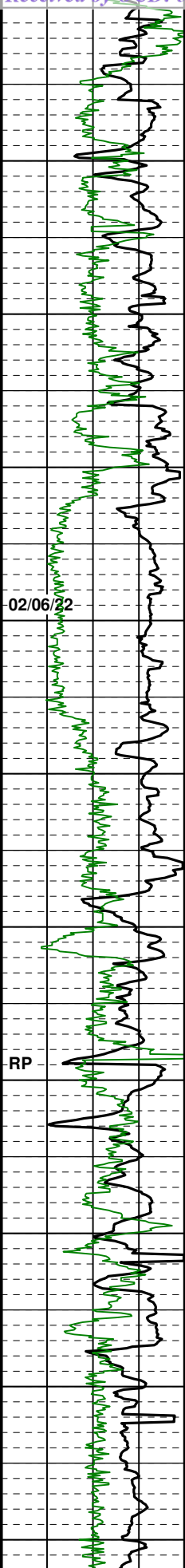
SLT: lt-dk gy, slit-vf grn, w srt, sb rnd-rnd, mod hrd - fri, arg mtx, lmy incl, 10% dull org - yl fluor, mod strmg cut, thk br yel resd rng

SH: drk gry gry blk, frm-mod hd, plty blkly, aren ip, calc, no fluor, no cut

SLT: lt-dk gy, slit-vf grn, w srt, sb rnd-rnd, mod hrd - fri, arg mtx, lmy incl, 5% dull org - yl fluor, mod strmg cut, thk br yel resd rng

SH: drk gry gry blk, frm-mod hd, plty blkly, aren ip, calc, no fluor, no cut

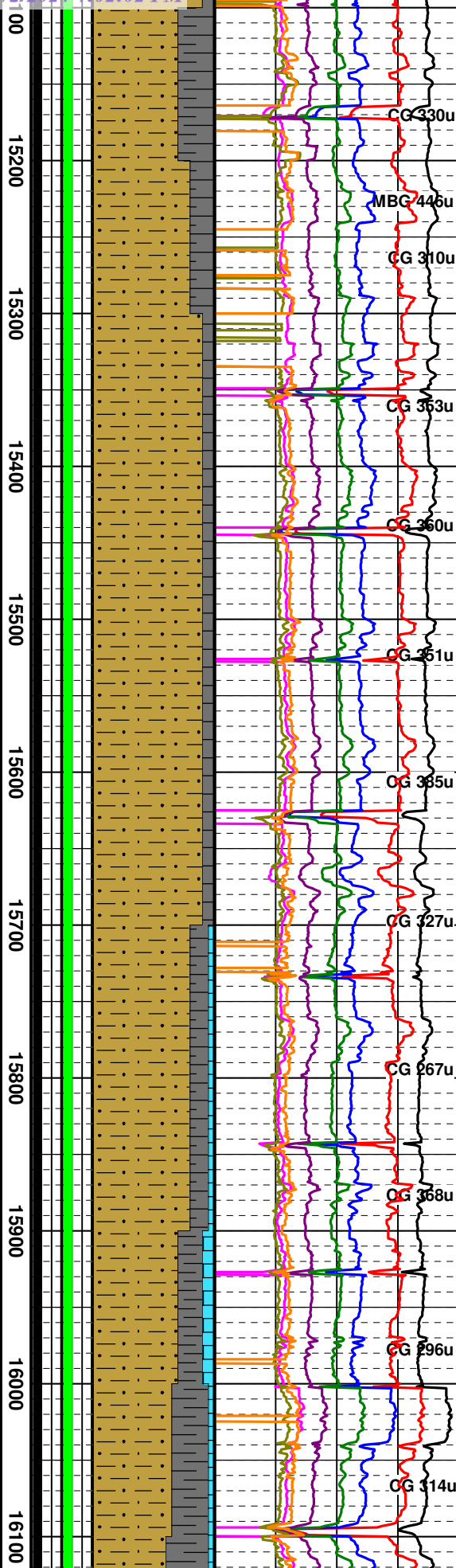
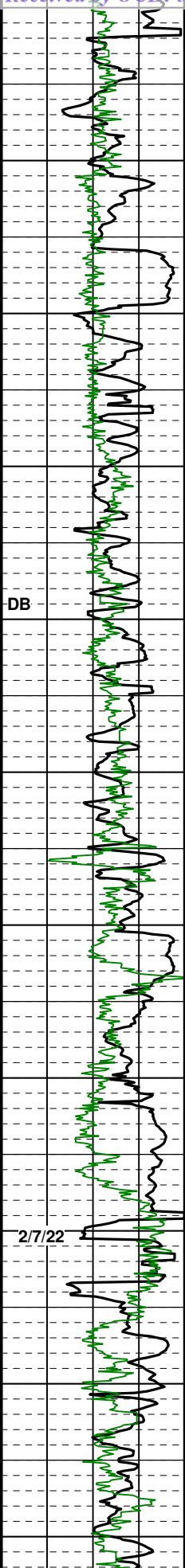




MWI 9.6
MWO 9.65
MD 14038' Inc 92° Azm 2°
TVD 10370.7' VS 3606.71
WOB 46k RPM 210
SPM 238 PP 4122
MD 14128' Inc 91° Azm 1°
TVD 10368.1' VS 3696.46
CG 225u
MWI 9.5
MWO 9.6
MD 14218' Inc 93° Azm 0°
TVD 10364.7' VS 3786.27
SH: drk gry gry blk, frm-mod
hd, plty blk, aren ip, calc, no
fluor, no cut
CG 291u
WOB 80k RPM 20
SPM 239 PP 3923
MD 14307' Inc 91° Azm 1°
TVD 10361.7' VS 3875.07
CG 270u
MWI 9.5
MWO 9.6
MD 14397' Inc 90° Azm 1°
TVD 10360.9' VS 3964.85
CG 210d
WOB 48k RPM 50
SPM 239 PP 4085
MD 14486' Inc 90° Azm 1°
TVD 10361.2' VS 4053.67
CG 308u
MD 14576' Inc 89° Azm 0°
TVD 10362.2' VS 4143.52
MWI 9.4+
MWO 9.5+
CG 322u
MD 14665' Inc 89° Azm 0°
TVD 10364' VS 4232.38
WOB 48k RPM 50
SPM 238 PP 4121
CG 290u
MD 14755' Inc 89° Azm 0°
TVD 10365.8' VS 4322.26
MBG 405u
MWI 9.4+
MWO 9.5
CG 245u
MD 14844' Inc 89° Azm 359°
TVD 10367.7' VS 4411.17
CG 364u
WOB 50k RPM 50
SPM 238 PP 4142
MD 14933' Inc 89° Azm 359°
TVD 10369.4' VS 4500.11
CG 390u
MWI 9.4+
MWO 9.5
MD 15023' Inc 93° Azm 359°
TVD 10368' VS 4590.06

SLT: lt-dk gy, slit-vf grn, w srt,
sb rnd-rnd, mod hrd - fri, arg
mtx, lmy incl, 5% dull orgn - yl
fluor, mod strmg cut, thk br yel
resd rng
SH: drk gry gry blk, frm-mod
hd, plty blk, aren ip, calc, no
fluor, no cut
SLT: lt-dk gy, slit-vf grn, w srt,
sb rnd-rnd, mod hrd - fri, arg
mtx, lmy incl, 5% dull orgn - yl
fluor, mod strmg cut, thk br yel
resd rng
SH: drk gry gry blk, frm-mod
hd, plty blk, aren ip, calc, no
fluor, no cut
SH: drk gry gry blk, frm-mod
hd, plty blk, aren ip, calc, no
fluor, no cut
SLT: lt-dk gy, slit-vf grn, w srt,
sb rnd-rnd, mod hrd - fri, arg
mtx, lmy incl, 10% dull orgn -
yl fluor, mod strmg cut, thk br
yel resd rng
SH: drk gry gry blk, frm-mod
hd, plty blk, aren ip, calc, no
fluor, no cut
SLT: lt-dk gy, slit-vf grn, w srt,
sb rnd-rnd, mod hrd - fri, arg
mtx, lmy incl, 10% dull orgn -
yl fluor, mod strmg cut, thk br
yel resd rng
SLTSTN: lt gy - gy - m gy -
trns, v fn - fn gr, sbang -
sbrnd, wl srt, v lw sphrcty,
frm fria - frm, 5% dll okur fluor,
fr dry strmg cut
SLTSTN: v lt gy - gy - trns, sli
fros txt, v fn - slit gr, wl - mod
srt, sbrnd - sbang, mow
sphrcty, frm - frm fria, tr dll
grn - okur fluor, tr dry cut
SH: m gy - dk gy - v dk gy, mod
frm - sli crnchy, blk - amor,
mass - tab ctngs, dll lstr, grtty -
sli erth txt, sli calc, mod aren
ip, tr dll gr fluor, tr dry cut
SH: m gy - dk y - gy, mod frm -
sft, blk - amor - occ sbbkly,
mass - tab ctngs, dll lstr, sm -
silty txt, sli cal, aren ip, tr dll grn
- v dll okur fluor, tr dry cut, v wk
res rng
SLTSTN: trns - lt gy - v lt gy -
crm, fros txt ip, slit - v fn gr, mod
- pr srt, sbrnd - sbang ip, mod
sphrcty, frm fri - mod consol, tr -
5% dll grn - dll yel fluor, fr strmg
- crsh dry cut, fr res rng





WOB 37k RPM 0
SPM 217 PP 4431

MD 15112' Inc 90° Azm 0°
TVD 10366' VS 4678.98

MWI 9.5
MWO 9.5

MD 15201' Inc 91° Azm 360°
TVD 10365.4' VS 4767.89

WOB 47k RPM 50
SPM 246 PP 4427

MD 15290' Inc 88° Azm 0°
TVD 10366.1' VS 4856.79

MWI 9.5
MWO 9.5

MD 15380' Inc 89° Azm 359°
TVD 10368.4' VS 4946.68

WOB 47k RPM 50
SPM 246 PP 4427

MD 15469' Inc 89° Azm 359°
TVD 10370.1' VS 5035.63

MWI 9.5
MWO 9.5

MD 15558' Inc 90° Azm 357°
TVD 10371.2' VS 5124.62

WOB 49k RPM 0
SPM 246 PP 4573

MD 15647' Inc 90° Azm 357°
TVD 10371.5' VS 5213.61

MWI 9.5
MWO 9.5

MD 15736' Inc 90° Azm 360°
TVD 10371.8' VS 5302.6

WOB 48k RPM 45
SPM 256 PP 4714

MD 15826' Inc 90° Azm 358°
TVD 10372.3' VS 5392.56

MWI 9.5
MWO 9.55

MD 15915' Inc 92° Azm 1°
TVD 10371.3' VS 5481.48

WOB 48k RPM 28
SPM 254 PP 4786

MD 16004' Inc 90° Azm 1°
TVD 10369.7' VS 5570.29

MWI 9.5
MWO 9.55

MD 16094' Inc 90° Azm 1°
TVD 10369.1' VS 5660.14

SLTSTN: tn - crm - trnsl - v lt gy ip, fros txt, slt - v fn gr, mod - pr srt, sbrnd, mod sphrcty, mod consol - fria ip, dll yel - dll grn fluor, fr strm dry cut, fr res rng

SH: m gy - dk gy - lt gy, mod frm - hd, blk - amor, mass ctngs, dll lstr, sm - grtty txt, aren, sli calc, trc ehud pyr inclu, tr dll yel fluor, fr strm cut, fr res rng

SLTSTN: trnsl - crm - v lt gy, slt - v fn gr, mod - pr srt, sbrnd - sbang ip, mod sphrcty, frm fri - mod consol, tr dll grn - dll yel fluor, fr strmg - crsh dry cut, fr res rng

SLTSTN: tn - crm - trnsl - v lt gy ip, fros txt, slt - v fn gr, mod srt, sbrnd, mod sphrcty, mod consol - fria ip, dll yel fluor, fr strm dry cut, fr res rng

SH: m gy - dk gy - lt gy, mod frm - hd, blk - amor, mass ctngs, dll lstr, sm - grtty txt, aren, sli calc, trc ehud pyr inclu, tr dll yel fluor, fr strm cut, fr res rng

SLTSTN: trnsl - lt gy - v lt gy - crm, fros txt ip, slt - v fn gr, mod - pr srt, sbrnd - sbang ip, mod sphrcty, frm fri - mod consol, tr - 5% dll grn - dll yel fluor, fr strmg - crsh dry cut, fr res rng

SLTSTN: trnsl - crm - v lt gy, slt - v fn gr, mod - pr srt, sbrnd - sbang ip, mod sphrcty, frm fri - mod consol, 10% dll grn - dll yel fluor, fr strmg - crsh dry cut, fr res rng

SH: m gy - dk gy - lt gy, mod frm - hd, blk - amor, mass ctngs, dll lstr, sm - grtty txt, aren, sli calc, trc ehud pyr inclu, 15% dll yel fluor, fr strm cut, fr res rng

SH: m gy - dk gy - lt gy, mod frm - hd, blk - amor, mass ctngs, dll lstr, sm - grtty txt, aren, sli calc, trc ehud pyr inclu, 10% dll yel fluor, fr strm cut, fr res rng

SLTSTN: trnsl - crm - v lt gy, slt - v fn gr, mod - pr srt, sbrnd - sbang ip, mod sphrcty, frm fri - mod consol, 10% dll grn - dll yel fluor, fr strmg - crsh dry cut, fr res rng

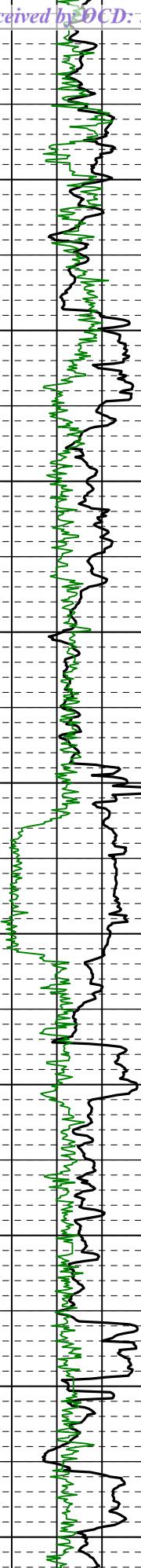
SLTSTN: tn - crm - trnsl - v lt gy ip, fros txt, slt - v fn gr, mod srt, sbrnd, mod sphrcty, mod consol - fria ip, 5% pal yel fluor, fr strm dry cut, fr res rng



RP

DB

17200
17100
17000
16900
16800
16700
16600
16500
16400
16300
16200



MD 16183' Inc 91° Azm 4°
TVD 10367.8' VS 5748.98
WOB 50k RPM 50
SPM 256 PP 5006
CG 214u

MD 16273' Inc 91° Azm 1°
TVD 10366' VS 5838.79
MWI 9.45
MWO 9.55
CG 290u

MD 16363' Inc 93° Azm 1°
TVD 0' VS 5928.54
WOB 52k RPM 0
SPM 256 PP 4854
CG 304u4u

MD 16452' Inc 88° Azm 4°
TVD 10361.5' VS 6017.12
MWI 9.45
MWO 9.5
MBO 1016u
CG 666u

MD 16542' Inc 88° Azm 4°
TVD 10364.5' VS 6106.5
WOB 49k RPM 51
SPM 256 PP 5073
CG 362u

MD 16631' Inc 90° Azm 3°
TVD 10366.6' VS 619.98
MWI 9.5
MWO 9.5
MBO 797u
CG 290u

MD 16721' Inc 88° Azm 2°
TVD 10368.4' VS 6284.61
WOB 51k RPM 50
SPM 255 PP 4821
CG 302u

MD 16811' Inc 89° Azm 2°
TVD 10370.9' VS 6374.33
MWI 9.45
MWO 9.45
CG 491u

MD 16900' Inc 89° Azm 359°
TVD 10372.6' VS 6463.19
WOB 53k RPM 50
SPM 255 PP 5185
CG 301u

MD 16990' Inc 89° Azm 358°
TVD 10373.6' VS 6553.18
MWI 9.5
MWO 9.5
CG 302u
CG 239u

MD 17079' Inc 90° Azm 357°
TVD 10374.3' VS 6642.17
MWI 9.5
MWO 9.5
CG 339u

MD 17169' Inc 91° Azm 358°
TVD 10373.9' VS 6732.17
WOB 53k RPM 50
SPM 255 PP 5185
CG 290u

MD 17258' Inc 92° Azm 360°

SLTSTN: lt gy - lt gy - v lt gy - crm, fros txt ip, slit - v fn gr, mod - pr srt, sbrnd - sbang ip, mod sphrcty, frm fri - mod consol, tr okur fluor, tr dry cut

SLTSTN: trns - ccrm - tn - v lt gy, slit - v fn gr, mod - pr srt, sbrnd - sbang, lw - mod sphrcty, e fria - frm - uncons ip, calc cmt mtx, 5% dll yl - okur fluor, fr bldg dry cut, fr dll yel res rng

SLTSTN: trns - opq - crm w/ v lt gy tint, slit - v fn gr, mod - pr srt, sbrnd - sbang ip, lw - mod sphrcty, frm fria - mod consol, 5% dll yel - okur fluor, fr bldg dry cut, pal yel res rng

SLTSTN: trns - tn - v lt gy, slit gr, mod srt, sbrnd, lw - mod sphrcty, fria - frm, calc cmt mtx, 5% pal yel - okur fluor, fr bldg dry cut, fr dll yel res rng

SH: m gy - lt gy - occ dk gy, mod frm - sft, bkly- sb bkly - occ amor, mass - tab cntgs, dll lstr, sm - sli grtty txt, sli calc, mod slty, sli aren ip, 5% okur fluor, fr strmg - bldgd dry cut, fr res rng

SLTSTN: tn - trns - opq - v lt gy ip, fros txt, slit - v fn gr, mod srt, sbrnd, mod sphrcty, mod consol - fria ip, tr pal yel fluor, fr strm dry cut, fr res rng

trns - opq - tn, slit - v fn gr, wll - mod srt, sbrnd - sbang, mod sphrcty, frm fria - sft, calc cmt mtx ip, 5% pal yel - okur fluor, fr bldg dry cut, fr res rng

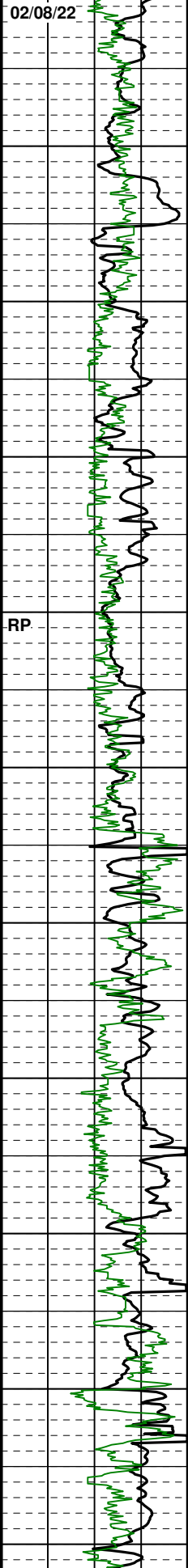
SLTSTN: trns - tn - v lt gy, slit gr, mod srt, sbrnd, mod sphrcty, fria - frm, calc cmt mtx, 5% pal yel fluor, fr bldg dry cut, fr dll yel res rng

SLTSTN: tn - trns - opq - v lt gy ip, fros txt, slit - v fn gr, mod srt, sbrnd, mod sphrcty, mod consol - fria ip, tr pal yel fluor, fr strm dry cut, fr res rng

SLTST: lt tan - tan, cm, bf, lt brn - brn, sub rddd - sub ang, mod hrd - v hrd, sm nod calct, sm sh inclus, tr stn, sm micfoss, 2-5 % dull orng - pa yel fluor, good blu - wht dry crush cut, good brt yel res ring, sm vis degassing

SLTST: lt tan - tan, cm, bf, lt brn - brn, sub rddd - sub ang, mod hrd - v hrd, sm nod calct, sm sh inclus, tr stn, sm micfoss, 2-5 % dull orng - pa yel fluor, good blu - wht dry crush cut, good brt yel res ring, sm vis degassing





17300
17400
17500
17600
17700
17800
17900
18000
18100
18200
18300

RP

CG 257u
CG 322u
CG 348u
CG 266u
CG 227u
CG 298u
CG 284u
CG 283u
CG 284u
CG 300u
CG 312u

MWI 9.55
MWO 9.55
MD 17348' Inc 93° Azm 360°
TVD 10368.2' VS 6910.95
WOB 50k RPM 50
SPM 255 PP 5037
MD 17437' Inc 89° Azm 359°
TVD 10366.4' VS 6999.88
MWI 9.55
MWO 9.55
MD 17527' Inc 89° Azm 359°
TVD 10367.4' VS 7089.84
WOB 52k RPM 50
SPM 255 PP 5207
MD 17616' Inc 90° Azm 359°
TVD 10367.8' VS 7178.8
MWI 9.5
MWO 9.55
MD 17705' Inc 92° Azm 358°
TVD 10366.2' VS 7267.77
WOB 51k RPM 50
SPM 255 PP 5288
MD 17795' Inc 92° Azm 358°
TVD 10363.3' VS 7357.71
MWI 9.5
MWO 9.5
MD 17884' Inc 92° Azm 357°
TVD 10360.3' VS 7446.66
MD 17974' Inc 91° Azm 355°
TVD 10358' VS 7536.59
WOB 49k RPM 51
SPM 255 PP 5133
MD 18063' Inc 91° Azm 357°
TVD 10356.1' VS 7625.54
MWI 9.45
MWO 9.45
MD 18152' Inc 91° Azm 359°
TVD 10354.5' VS 7714.51
WOB 52k RPM 50
SPM 233 PP 4285
MWI 9.5
MWO 9.5

SLSTST: lt tan - tan, cm, bf, lt brn - brn, sub rddd - sub ang, mod hrd - v hrd, sm nod calct, sm sh inclus, tr stn, sm micfoss, 2-5 % dull orng - pa yel fluor, good blu - wht dry crush cut, good brt yel res ring, sm vis degassing
SH: m gy - lt gy - occ dk gy, mod frm - sft, blkly - sb blkly - occ amor, mass - tab cntgs, dll lstr, sm - sli grtty txt, sli calc, mod slty, sli aren ip, 5% okur fluor, fr strmg - blkdry dry cut, fr res rng
SLSTSTN: tan, cm, bf, lt brn - brn, sub rddd - sub ang, mod hrd - v hrd, sm nod calct, sm sh inclus, tr stn, sm micfoss, 5 % pal yel fluor, fr dry bldg cut, fr dll yel res ring
SLSTST: lt tan - tan, cm, bf, lt brn - brn, sub rddd - sub ang, mod hrd - v hrd, sm nod calct, sm sh inclus, 5% okur fluor, fr dry bldg cut, fr yel res rng
SLTSTN: tn - crm - tnrls - occ opq, slt - v fn gr, mod srt, sbrnd - sbang, mod sphrcty, frm fria - mod consol, calc cmt mtx, mod amt sh, tr - 5 % okur - dll yel fluor, fr strmg - bldg dry cut, fr res rng
SLTSTN: tn - crm - v lt gy - trns, slt - v fn gr, mod - pr srt, sbrnd -sbang, lw - mod sphrcty, frm fria - e fria, sli calc cmt mtx, sli arg ip, tr okur fluor, wk - fr bldg - crsh dry cut, wk res rng
SH: v lt gy - gy - occ m gy, mod frm - frm, blkly - amor, wdglik - mass cntgs, dll lstr, sm - sli grtty txt, mod slty, sli aren ip, tr - 5% okur - dll yel fluor, fr bldg dry cut, wk - fr res rng
SLTSTN: trns - tn - v lt gy, slt gr, mod srt, sbrnd, lw - mod sphrcty, fria - frm, calc cmt mtx, 5% pal yel - okur fluor, fr bldg dry cut, fr dll yel res rng
SLTSTN: trns - tn - v lt gy, slt gr, mod srt, sbrnd, lw - mod sphrcty, fria - frm, calc cmt mtx, 5% pal yel - okur fluor, fr bldg dry cut, fr dll yel res rng
SLTSTN: trnsl - clr - tn - crm - occ v lt gy, slt - v fn gr, pr srt, sbrnd - sbang, mod sphrcty, frm fria, calc cmt mtx, mod amt ls, 5% pal yel fluor, fr bldg - strmg dry cut, fr res rng
SLTSTN: tn - trnsl - opq - v lt gy ip, fros txt, slt - v fn gr, mod srt, sbrnd, mod sphrcty, mod consol - fria ip, trc ls /sh, 5% pal yel fluor, fr strmg dry cut, fr res rng



Imaging Flag Gamma Ray (MWD) API 150 Average ROP 300 FPH 0 ROP	Depth 18500 1400 Cut Fluor	Fluorescence Cut IOE3:		WOB 50k RPM 51 SPM 233 PP 4504	SLTSTN: trns - tn - v lt gy, slt gr, mod srt, sbrnd, mod sphrcty, fria - frm, calc cmt mtx, 5% pal yel fluor, fr bldg dry cut, fr dll yel res rng				
							Normal Pentane	10 PPM	100000
							Iso-Pentane	10 PPM	100000
							Normal Butane	10 PPM	100000
							Iso-Butane	10 PPM	100000
							Propane	10 PPM	100000
							Ethane	10 PPM	100000
							Methane	10 PPM	100000
							Total Gas	0.1 Unit	1000
							% Lith	Total Gas/Chromo	Drilling Parameters & Surveys

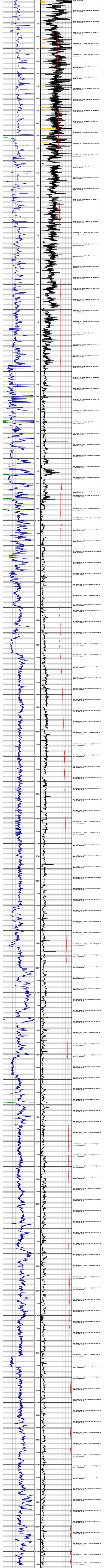
Anderson Fed Com 501H

Company: Advance Energy Partners, LLC
 Well Name: Anderson Fed Com 501H
 APN: 30-010-0000
 County/Parish: Lea
 State: New Mexico
 Country: USA
 Job number: APT-21-164
 Field: Bona Spring
 Rig Id: Nabors X50
 Survey Company: AIM Directional Services, LLC

Log measurements from: 120'		Temp. RCP	
Maximum temperature: 185			
Depth	Date		
Start: 120'	11/25/2021		
End: 1942'	02/08/2022		
Casing	Depth	Casing Size	Hole Size
Surface:	N/A	13.30"	12.25"
Intermediate:	4811'	9.63"	12.25"
Intermediate2:	9830'	5.5"	8.75"
Mud Type: WBM			
Density: 9.8			
Viscosity: 28			
Rm:	Rm:	RmC:	Elevations
			KB: 3726.5
			GL: 3693

Run	Tool SN	Gamma Cal	Bit Size	Survey	Offsets Gamma	Reals	Mud Type	Weight	Depth Start	Depth End	Dates
1	EN-003	N/A	17.5"	67.00 ft		N/A	WBM	9.6	120 ft	1288 ft	11/25/2021 09:00 - 11/25/2021 16:30
2	EN-003	N/A	12.25"	67.00 ft		N/A	WBM	9.6	1288 ft	4811 ft	11/27/2021 03:30 - 11/28/2021 05:00
3	G-041	3.83	8.75"	63.00 ft	48.00 ft	N/A	WBM	9.5	4811 ft	9830 ft	01/02/2022 16:30 - 02/01/2022 03:45
4	G-041	3.83	8.75"	57.00 ft	42.00 ft	N/A	WBM	9.2	9830 ft	11051 ft	02/01/2022 14:45 - 02/02/2022 14:50
5	G-041	3.83	8.75"	54.00 ft	38.00 ft	N/A	WBM	9.2	10735 ft	11051 ft	02/02/2022 22:30 - 02/03/2022 14:00
6	G-007	5.10	8.75"	56.00 ft	41.00 ft	N/A	DBM	9.5	11051 ft	18452 ft	02/02/2022 23:00 - 02/08/2022 18:00
7											
8											
9											
10											

AIM Directional Services, LLC uses its best efforts to provide its customers with accurate information and interpretations in conjunction with services performed but will not be held liable or responsible for the accuracy of such information or interpretation.





Advance Energy Partners, LLC

**Lea County, New Mexico
Anderson Fed Com 501H
Anderson #501H**

Drilling

Design: Surveys

Survey Report - Geographic

13 October, 2022



Aim Directional Services, LLC

Survey Report - Geographic

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Well Anderson #501H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3724.50usft (Nabors X50)
Site:	Anderson Fed Com 501H	MD Reference:	Well @ 3724.50usft (Nabors X50)
Well:	Anderson #501H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Single User Db-PR

Project	Lea County, New Mexico		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Anderson Fed Com 501H				
Site Position:		Northing:	519,935.26 usft	Latitude:	32° 25' 39.090 N
From:	Lat/Long	Easting:	751,599.66 usft	Longitude:	103° 39' 6.725 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.37 °

Well	Anderson #501H					
Well Position	+N/-S	0.00 usft	Northing:	519,935.26 usft	Latitude:	32° 25' 39.090 N
	+E/-W	0.00 usft	Easting:	751,599.66 usft	Longitude:	103° 39' 6.725 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,692.00 usft

Wellbore	Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	11/15/2021	6.45	60.12	47,848.338

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	357.42	

Survey Program	Date	3/3/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
229.00	18,452.00	MWD Surveys (Drilling)	MWD+HRGM Advance	OWSG MWD + HRGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	519,935.26	751,599.66	32° 25' 39.090 N	103° 39' 6.725 W	
229.00	0.84	31.22	228.99	1.44	0.87	519,936.70	751,600.53	32° 25' 39.104 N	103° 39' 6.715 W	
First Aim Svy										
321.00	0.57	14.52	320.98	2.46	1.33	519,937.72	751,600.99	32° 25' 39.114 N	103° 39' 6.709 W	
413.00	0.18	28.67	412.98	3.03	1.52	519,938.29	751,601.18	32° 25' 39.120 N	103° 39' 6.707 W	
505.00	0.13	285.66	504.98	3.18	1.49	519,938.44	751,601.15	32° 25' 39.121 N	103° 39' 6.707 W	
597.00	0.22	254.55	596.98	3.16	1.22	519,938.43	751,600.88	32° 25' 39.121 N	103° 39' 6.710 W	
689.00	0.35	276.52	688.98	3.15	0.77	519,938.41	751,600.43	32° 25' 39.121 N	103° 39' 6.716 W	
781.00	0.75	246.11	780.98	2.93	-0.06	519,938.20	751,599.60	32° 25' 39.119 N	103° 39' 6.725 W	
878.00	1.32	239.25	877.96	2.11	-1.60	519,937.37	751,598.06	32° 25' 39.111 N	103° 39' 6.743 W	
973.00	0.53	230.64	972.95	1.27	-2.88	519,936.53	751,596.78	32° 25' 39.103 N	103° 39' 6.758 W	
1,066.00	0.18	220.18	1,065.95	0.88	-3.31	519,936.15	751,596.35	32° 25' 39.099 N	103° 39' 6.763 W	



Aim Directional Services, LLC

Survey Report - Geographic

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Well Anderson #501H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3724.50usft (Nabors X50)
Site:	Anderson Fed Com 501H	MD Reference:	Well @ 3724.50usft (Nabors X50)
Well:	Anderson #501H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Single User Db-PR

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
1,155.00	0.57	234.24	1,154.94	0.52	-3.76	519,935.78	751,595.90	32° 25' 39.095 N	103° 39' 6.769 W	
1,218.00	0.66	238.29	1,217.94	0.14	-4.32	519,935.41	751,595.34	32° 25' 39.092 N	103° 39' 6.775 W	
1,335.00	1.45	265.97	1,334.92	-0.31	-6.37	519,934.95	751,593.29	32° 25' 39.087 N	103° 39' 6.799 W	
1,424.00	1.76	265.71	1,423.88	-0.50	-8.86	519,934.77	751,590.80	32° 25' 39.086 N	103° 39' 6.828 W	
1,514.00	1.10	208.49	1,513.86	-1.36	-10.65	519,933.91	751,589.01	32° 25' 39.077 N	103° 39' 6.849 W	
1,603.00	1.85	170.79	1,602.83	-3.53	-10.83	519,931.74	751,588.83	32° 25' 39.056 N	103° 39' 6.851 W	
1,693.00	0.35	216.93	1,692.81	-5.18	-10.76	519,930.08	751,588.90	32° 25' 39.039 N	103° 39' 6.851 W	
1,783.00	1.98	341.56	1,782.80	-3.93	-11.42	519,931.34	751,588.24	32° 25' 39.052 N	103° 39' 6.858 W	
1,872.00	2.33	345.78	1,871.73	-0.71	-12.35	519,934.55	751,587.31	32° 25' 39.084 N	103° 39' 6.869 W	
1,962.00	1.23	303.33	1,961.69	1.59	-13.60	519,936.86	751,586.06	32° 25' 39.107 N	103° 39' 6.883 W	
2,052.00	1.41	238.64	2,051.67	1.55	-15.36	519,936.81	751,584.30	32° 25' 39.106 N	103° 39' 6.904 W	
2,141.00	1.41	230.38	2,140.65	0.28	-17.13	519,935.54	751,582.52	32° 25' 39.094 N	103° 39' 6.925 W	
2,231.00	0.53	113.04	2,230.64	-0.59	-17.60	519,934.67	751,582.05	32° 25' 39.085 N	103° 39' 6.930 W	
2,320.00	2.11	75.51	2,319.61	-0.34	-15.64	519,934.92	751,584.02	32° 25' 39.088 N	103° 39' 6.907 W	
2,409.00	2.90	75.16	2,408.53	0.64	-11.88	519,935.91	751,587.78	32° 25' 39.097 N	103° 39' 6.863 W	
2,498.00	2.20	70.94	2,497.44	1.78	-8.09	519,937.04	751,591.57	32° 25' 39.108 N	103° 39' 6.819 W	
2,588.00	1.41	68.04	2,587.39	2.76	-5.43	519,938.02	751,594.23	32° 25' 39.118 N	103° 39' 6.788 W	
2,677.00	2.15	68.57	2,676.35	3.78	-2.86	519,939.04	751,596.80	32° 25' 39.128 N	103° 39' 6.758 W	
2,766.00	1.71	80.87	2,765.30	4.60	0.01	519,939.86	751,599.67	32° 25' 39.135 N	103° 39' 6.724 W	
2,856.00	1.71	86.06	2,855.26	4.90	2.67	519,940.17	751,602.33	32° 25' 39.138 N	103° 39' 6.693 W	
2,946.00	1.14	119.55	2,945.23	4.55	4.79	519,939.82	751,604.45	32° 25' 39.135 N	103° 39' 6.669 W	
3,036.00	1.19	165.43	3,035.22	3.21	5.81	519,938.47	751,605.47	32° 25' 39.121 N	103° 39' 6.657 W	
3,125.00	1.14	123.06	3,124.20	1.83	6.78	519,937.09	751,606.44	32° 25' 39.108 N	103° 39' 6.646 W	
3,215.00	1.71	128.25	3,214.17	0.51	8.59	519,935.77	751,608.25	32° 25' 39.094 N	103° 39' 6.625 W	
3,304.00	2.07	134.84	3,303.12	-1.45	10.77	519,933.82	751,610.43	32° 25' 39.075 N	103° 39' 6.599 W	
3,394.00	1.19	183.00	3,393.09	-3.53	11.87	519,931.74	751,611.53	32° 25' 39.054 N	103° 39' 6.587 W	
3,483.00	1.32	241.10	3,482.07	-4.94	10.93	519,930.32	751,610.59	32° 25' 39.040 N	103° 39' 6.598 W	
3,573.00	1.32	234.86	3,572.05	-6.04	9.17	519,929.22	751,608.83	32° 25' 39.030 N	103° 39' 6.618 W	
3,663.00	1.10	214.47	3,662.03	-7.35	7.83	519,927.91	751,607.49	32° 25' 39.017 N	103° 39' 6.634 W	
3,752.00	1.10	192.85	3,751.01	-8.89	7.16	519,926.38	751,606.82	32° 25' 39.002 N	103° 39' 6.642 W	
3,842.00	1.23	170.44	3,840.99	-10.68	7.13	519,924.58	751,606.79	32° 25' 38.984 N	103° 39' 6.642 W	
3,932.00	0.70	234.42	3,930.98	-11.96	6.84	519,923.31	751,606.50	32° 25' 38.971 N	103° 39' 6.646 W	
4,021.00	1.23	272.92	4,019.97	-12.22	5.45	519,923.04	751,605.11	32° 25' 38.969 N	103° 39' 6.662 W	
4,111.00	1.01	283.55	4,109.95	-11.99	3.71	519,923.28	751,603.37	32° 25' 38.971 N	103° 39' 6.682 W	
4,200.00	1.01	287.95	4,198.94	-11.56	2.20	519,923.70	751,601.86	32° 25' 38.975 N	103° 39' 6.700 W	
4,290.00	0.88	293.75	4,288.93	-11.04	0.81	519,924.23	751,600.47	32° 25' 38.981 N	103° 39' 6.716 W	
4,379.00	0.70	286.98	4,377.92	-10.61	-0.33	519,924.66	751,599.33	32° 25' 38.985 N	103° 39' 6.729 W	
4,469.00	0.66	284.78	4,467.91	-10.31	-1.36	519,924.95	751,598.30	32° 25' 38.988 N	103° 39' 6.741 W	
4,559.00	0.75	297.61	4,557.90	-9.91	-2.38	519,925.36	751,597.28	32° 25' 38.992 N	103° 39' 6.753 W	
4,648.00	0.75	315.81	4,646.90	-9.22	-3.30	519,926.04	751,596.36	32° 25' 38.999 N	103° 39' 6.764 W	
4,738.00	0.97	321.43	4,736.89	-8.20	-4.19	519,927.06	751,595.47	32° 25' 39.009 N	103° 39' 6.774 W	
4,912.00	1.14	346.04	4,910.86	-5.37	-5.52	519,929.89	751,594.13	32° 25' 39.037 N	103° 39' 6.790 W	
5,002.00	1.10	354.30	5,000.84	-3.64	-5.83	519,931.62	751,593.83	32° 25' 39.054 N	103° 39' 6.793 W	
5,091.00	1.23	350.35	5,089.82	-1.85	-6.07	519,933.41	751,593.59	32° 25' 39.072 N	103° 39' 6.796 W	
5,181.00	1.27	349.56	5,179.80	0.08	-6.41	519,935.35	751,593.25	32° 25' 39.091 N	103° 39' 6.800 W	
5,270.00	1.36	347.27	5,268.78	2.08	-6.83	519,937.35	751,592.83	32° 25' 39.111 N	103° 39' 6.804 W	
5,359.00	1.58	274.23	5,357.76	3.20	-8.28	519,938.47	751,591.38	32° 25' 39.122 N	103° 39' 6.821 W	
5,449.00	3.12	234.07	5,447.68	1.86	-11.50	519,937.12	751,588.16	32° 25' 39.109 N	103° 39' 6.859 W	
5,539.00	4.92	232.40	5,537.46	-1.93	-16.54	519,933.33	751,583.11	32° 25' 39.072 N	103° 39' 6.918 W	
5,628.00	5.36	232.66	5,626.10	-6.78	-22.87	519,928.48	751,576.79	32° 25' 39.024 N	103° 39' 6.992 W	
5,718.00	5.14	230.46	5,715.72	-11.90	-29.32	519,923.36	751,570.33	32° 25' 38.974 N	103° 39' 7.068 W	
5,808.00	5.05	229.23	5,805.37	-17.05	-35.43	519,918.21	751,564.23	32° 25' 38.923 N	103° 39' 7.139 W	
5,897.00	4.97	227.83	5,894.03	-22.20	-41.26	519,913.06	751,558.40	32° 25' 38.873 N	103° 39' 7.208 W	
5,986.00	4.97	226.86	5,982.69	-27.42	-46.93	519,907.84	751,552.73	32° 25' 38.822 N	103° 39' 7.274 W	
6,076.00	4.79	228.00	6,072.37	-32.60	-52.56	519,902.66	751,547.09	32° 25' 38.771 N	103° 39' 7.340 W	



Aim Directional Services, LLC

Survey Report - Geographic

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Well Anderson #501H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3724.50usft (Nabors X50)
Site:	Anderson Fed Com 501H	MD Reference:	Well @ 3724.50usft (Nabors X50)
Well:	Anderson #501H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Single User Db-PR

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
6,166.00	4.75	226.33	6,162.05	-37.69	-58.05	519,897.57	751,541.61	32° 25' 38.721 N	103° 39' 7.405 W	
6,255.00	4.62	224.75	6,250.76	-42.78	-63.24	519,892.48	751,536.42	32° 25' 38.671 N	103° 39' 7.466 W	
6,345.00	4.48	224.93	6,340.47	-47.84	-68.28	519,887.42	751,531.38	32° 25' 38.621 N	103° 39' 7.525 W	
6,434.00	4.40	225.72	6,429.21	-52.69	-73.17	519,882.58	751,526.48	32° 25' 38.573 N	103° 39' 7.582 W	
6,524.00	4.13	227.04	6,518.96	-57.31	-78.02	519,877.96	751,521.64	32° 25' 38.528 N	103° 39' 7.639 W	
6,613.00	3.82	226.33	6,607.74	-61.54	-82.51	519,873.73	751,517.15	32° 25' 38.486 N	103° 39' 7.692 W	
6,703.00	3.74	224.14	6,697.55	-65.72	-86.72	519,869.55	751,512.94	32° 25' 38.445 N	103° 39' 7.741 W	
6,792.00	3.43	223.43	6,786.37	-69.73	-90.57	519,865.53	751,509.09	32° 25' 38.406 N	103° 39' 7.787 W	
6,882.00	3.34	225.10	6,876.22	-73.54	-94.28	519,861.73	751,505.38	32° 25' 38.368 N	103° 39' 7.830 W	
6,971.00	3.25	222.64	6,965.07	-77.22	-97.83	519,858.04	751,501.83	32° 25' 38.332 N	103° 39' 7.872 W	
7,061.00	3.12	219.48	7,054.93	-80.99	-101.11	519,854.27	751,498.55	32° 25' 38.295 N	103° 39' 7.910 W	
7,150.00	5.05	229.94	7,143.70	-85.38	-105.65	519,849.88	751,494.01	32° 25' 38.252 N	103° 39' 7.964 W	
7,240.00	4.97	230.03	7,233.36	-90.44	-111.67	519,844.83	751,487.99	32° 25' 38.202 N	103° 39' 8.034 W	
7,329.00	4.88	229.85	7,322.03	-95.35	-117.52	519,839.91	751,482.14	32° 25' 38.154 N	103° 39' 8.103 W	
7,419.00	4.70	227.30	7,411.71	-100.32	-123.15	519,834.94	751,476.51	32° 25' 38.105 N	103° 39' 8.169 W	
7,598.00	4.26	224.75	7,590.17	-110.02	-133.22	519,825.25	751,466.44	32° 25' 38.010 N	103° 39' 8.287 W	
7,688.00	4.09	224.31	7,679.93	-114.69	-137.82	519,820.58	751,461.84	32° 25' 37.964 N	103° 39' 8.341 W	
7,778.00	4.88	235.04	7,769.65	-119.18	-143.20	519,816.09	751,456.46	32° 25' 37.920 N	103° 39' 8.404 W	
7,867.00	4.88	235.74	7,858.33	-123.48	-149.43	519,811.79	751,450.23	32° 25' 37.878 N	103° 39' 8.477 W	
7,957.00	4.66	235.74	7,948.02	-127.69	-155.62	519,807.57	751,444.04	32° 25' 37.836 N	103° 39' 8.550 W	
8,047.00	4.48	235.39	8,037.73	-131.75	-161.53	519,803.52	751,438.13	32° 25' 37.797 N	103° 39' 8.619 W	
8,136.00	4.48	234.51	8,126.46	-135.74	-167.22	519,799.53	751,432.44	32° 25' 37.757 N	103° 39' 8.686 W	
8,226.00	4.26	230.73	8,216.20	-139.89	-172.67	519,795.37	751,426.99	32° 25' 37.717 N	103° 39' 8.750 W	
8,315.00	5.76	224.84	8,304.86	-145.15	-178.38	519,790.11	751,421.28	32° 25' 37.665 N	103° 39' 8.817 W	
8,404.00	6.11	224.14	8,393.38	-151.72	-184.83	519,783.54	751,414.83	32° 25' 37.600 N	103° 39' 8.892 W	
8,494.00	5.85	223.26	8,482.89	-158.50	-191.31	519,776.77	751,408.35	32° 25' 37.534 N	103° 39' 8.969 W	
8,584.00	5.63	222.03	8,572.44	-165.12	-197.40	519,770.15	751,402.25	32° 25' 37.469 N	103° 39' 9.040 W	
8,673.00	5.10	221.32	8,661.05	-171.33	-202.94	519,763.93	751,396.72	32° 25' 37.407 N	103° 39' 9.105 W	
8,763.00	4.75	218.60	8,750.72	-177.25	-207.91	519,758.02	751,391.75	32° 25' 37.349 N	103° 39' 9.164 W	
8,852.00	4.22	211.30	8,839.44	-182.93	-211.91	519,752.34	751,387.75	32° 25' 37.293 N	103° 39' 9.211 W	
8,942.00	5.41	207.79	8,929.12	-189.51	-215.60	519,745.76	751,384.05	32° 25' 37.228 N	103° 39' 9.254 W	
9,031.00	5.49	216.58	9,017.72	-196.64	-220.10	519,738.63	751,379.56	32° 25' 37.158 N	103° 39' 9.307 W	
9,121.00	5.23	227.48	9,107.33	-202.87	-225.69	519,732.40	751,373.97	32° 25' 37.097 N	103° 39' 9.373 W	
9,211.00	4.44	225.37	9,197.01	-208.09	-231.19	519,727.18	751,368.47	32° 25' 37.046 N	103° 39' 9.438 W	
9,301.00	3.65	220.62	9,286.79	-212.71	-235.53	519,722.55	751,364.13	32° 25' 37.000 N	103° 39' 9.489 W	
9,390.00	2.81	218.51	9,375.64	-216.57	-238.74	519,718.70	751,360.92	32° 25' 36.962 N	103° 39' 9.526 W	
9,480.00	3.16	214.38	9,465.52	-220.34	-241.51	519,714.92	751,358.15	32° 25' 36.925 N	103° 39' 9.559 W	
9,570.00	1.71	213.59	9,555.44	-223.51	-243.65	519,711.76	751,356.00	32° 25' 36.894 N	103° 39' 9.584 W	
9,659.00	0.97	349.73	9,644.43	-223.87	-244.52	519,711.39	751,355.14	32° 25' 36.890 N	103° 39' 9.594 W	
9,749.00	1.27	6.70	9,734.41	-222.13	-244.54	519,713.13	751,355.12	32° 25' 36.907 N	103° 39' 9.594 W	
9,767.00	1.01	8.28	9,752.41	-221.78	-244.50	519,713.49	751,355.16	32° 25' 36.911 N	103° 39' 9.594 W	
9,804.00	1.05	15.13	9,789.40	-221.13	-244.36	519,714.14	751,355.30	32° 25' 36.917 N	103° 39' 9.592 W	
9,894.00	2.42	344.81	9,879.36	-218.50	-244.64	519,716.77	751,355.01	32° 25' 36.943 N	103° 39' 9.595 W	
9,910.00	3.78	342.35	9,895.33	-217.67	-244.89	519,717.60	751,354.77	32° 25' 36.952 N	103° 39' 9.598 W	
9,983.00	13.98	352.11	9,967.37	-206.61	-246.84	519,728.65	751,352.82	32° 25' 37.061 N	103° 39' 9.620 W	
10,073.00	23.16	348.06	10,052.59	-178.47	-252.00	519,756.80	751,347.66	32° 25' 37.340 N	103° 39' 9.678 W	
10,162.00	28.00	347.54	10,132.85	-140.92	-260.14	519,794.34	751,339.52	32° 25' 37.712 N	103° 39' 9.770 W	
10,252.00	36.44	347.01	10,208.92	-94.16	-270.72	519,841.10	751,328.94	32° 25' 38.175 N	103° 39' 9.890 W	
10,341.00	38.15	352.37	10,279.74	-41.14	-280.32	519,894.12	751,319.34	32° 25' 38.701 N	103° 39' 9.998 W	
10,431.00	46.77	357.38	10,346.09	19.29	-285.52	519,954.56	751,314.14	32° 25' 39.299 N	103° 39' 10.054 W	
10,520.00	60.40	0.10	10,398.81	90.72	-286.94	520,025.98	751,312.72	32° 25' 40.006 N	103° 39' 10.066 W	
10,610.00	73.10	0.45	10,434.26	173.24	-286.53	520,108.51	751,313.13	32° 25' 40.822 N	103° 39' 10.055 W	
10,678.00	79.38	359.31	10,450.43	239.25	-286.68	520,174.52	751,312.98	32° 25' 41.476 N	103° 39' 10.052 W	
10,715.65	85.68	359.71	10,455.32	276.56	-287.00	520,211.83	751,312.66	32° 25' 41.845 N	103° 39' 10.053 W	

Actual FTP



Aim Directional Services, LLC

Survey Report - Geographic

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Well Anderson #501H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3724.50usft (Nabors X50)
Site:	Anderson Fed Com 501H	MD Reference:	Well @ 3724.50usft (Nabors X50)
Well:	Anderson #501H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Single User Db-PR

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,728.00	87.74	359.84	10,456.03	288.89	-287.04	520,224.16	751,312.62	32° 25' 41.967 N	103° 39' 10.052 W
10,818.00	94.20	357.64	10,454.51	378.81	-289.02	520,314.07	751,310.64	32° 25' 42.857 N	103° 39' 10.069 W
10,907.00	91.16	357.82	10,450.35	467.63	-292.54	520,402.89	751,307.12	32° 25' 43.736 N	103° 39' 10.103 W
10,997.00	93.85	356.68	10,446.41	557.43	-296.85	520,492.69	751,302.81	32° 25' 44.625 N	103° 39' 10.147 W
11,086.00	93.45	359.05	10,440.75	646.18	-300.16	520,581.45	751,299.50	32° 25' 45.503 N	103° 39' 10.179 W
11,176.00	87.43	358.96	10,440.05	736.12	-301.72	520,671.39	751,297.94	32° 25' 46.393 N	103° 39' 10.190 W
11,265.00	86.73	357.38	10,444.59	824.96	-304.56	520,760.22	751,295.10	32° 25' 47.272 N	103° 39' 10.217 W
11,355.00	89.14	358.96	10,447.83	914.84	-307.43	520,850.11	751,292.23	32° 25' 48.162 N	103° 39' 10.244 W
11,444.00	88.44	357.99	10,449.71	1,003.79	-309.80	520,939.06	751,289.86	32° 25' 49.042 N	103° 39' 10.265 W
11,534.00	91.82	358.96	10,449.51	1,093.75	-312.20	521,029.01	751,287.46	32° 25' 49.932 N	103° 39' 10.286 W
11,624.00	92.53	358.35	10,446.09	1,183.65	-314.31	521,118.92	751,285.35	32° 25' 50.822 N	103° 39' 10.304 W
11,713.00	91.12	2.12	10,443.26	1,272.59	-313.94	521,207.86	751,285.72	32° 25' 51.702 N	103° 39' 10.293 W
11,803.00	91.18	1.77	10,441.45	1,362.52	-310.89	521,297.79	751,288.77	32° 25' 52.592 N	103° 39' 10.251 W
11,892.00	91.82	1.16	10,439.12	1,451.46	-308.61	521,386.72	751,291.05	32° 25' 53.472 N	103° 39' 10.218 W
11,982.00	92.66	0.72	10,435.60	1,541.38	-307.14	521,476.64	751,292.52	32° 25' 54.361 N	103° 39' 10.194 W
12,072.00	90.20	359.84	10,433.36	1,631.34	-306.70	521,566.61	751,292.96	32° 25' 55.252 N	103° 39' 10.182 W
12,161.00	89.71	358.96	10,433.43	1,720.33	-307.63	521,655.60	751,292.03	32° 25' 56.132 N	103° 39' 10.186 W
12,251.00	90.51	357.82	10,433.25	1,810.30	-310.16	521,745.56	751,289.50	32° 25' 57.023 N	103° 39' 10.209 W
12,340.00	91.78	359.75	10,431.48	1,899.25	-312.04	521,834.52	751,287.61	32° 25' 57.903 N	103° 39' 10.224 W
12,430.00	89.05	0.10	10,430.82	1,989.24	-312.16	521,924.51	751,287.50	32° 25' 58.793 N	103° 39' 10.219 W
12,519.00	88.75	0.02	10,432.53	2,078.23	-312.07	522,013.49	751,287.59	32° 25' 59.674 N	103° 39' 10.211 W
12,609.00	90.51	0.10	10,433.11	2,168.22	-311.97	522,103.49	751,287.68	32° 26' 0.564 N	103° 39' 10.203 W
12,698.00	92.04	359.58	10,431.13	2,257.19	-312.22	522,192.46	751,287.44	32° 26' 1.445 N	103° 39' 10.200 W
12,787.00	90.68	359.31	10,429.02	2,346.16	-313.08	522,281.43	751,286.57	32° 26' 2.325 N	103° 39' 10.203 W
12,877.00	90.11	358.87	10,428.40	2,436.15	-314.51	522,371.41	751,285.14	32° 26' 3.216 N	103° 39' 10.213 W
12,966.00	93.23	357.99	10,425.81	2,525.07	-316.95	522,460.33	751,282.71	32° 26' 4.096 N	103° 39' 10.235 W
13,055.00	95.12	357.47	10,419.33	2,613.76	-320.47	522,549.02	751,279.19	32° 26' 4.973 N	103° 39' 10.269 W
13,145.00	94.20	358.96	10,412.02	2,703.41	-323.26	522,638.68	751,276.40	32° 26' 5.861 N	103° 39' 10.295 W
13,234.00	95.34	359.49	10,404.61	2,792.09	-324.46	522,727.36	751,275.20	32° 26' 6.738 N	103° 39' 10.303 W
13,323.00	91.87	359.40	10,399.02	2,880.90	-325.32	522,816.16	751,274.34	32° 26' 7.617 N	103° 39' 10.306 W
13,413.00	91.56	358.43	10,396.33	2,970.84	-327.02	522,906.11	751,272.64	32° 26' 8.507 N	103° 39' 10.319 W
13,502.00	92.70	357.82	10,393.02	3,059.73	-329.93	522,995.00	751,269.73	32° 26' 9.387 N	103° 39' 10.347 W
13,591.00	91.16	358.87	10,390.02	3,148.64	-332.50	523,083.90	751,267.16	32° 26' 10.267 N	103° 39' 10.370 W
13,680.00	91.65	357.29	10,387.84	3,237.56	-335.48	523,172.82	751,264.18	32° 26' 11.147 N	103° 39' 10.398 W
13,769.00	92.31	355.88	10,384.76	3,326.35	-340.78	523,261.61	751,258.88	32° 26' 12.026 N	103° 39' 10.453 W
13,859.00	93.10	358.43	10,380.51	3,416.13	-345.24	523,351.39	751,254.42	32° 26' 12.914 N	103° 39' 10.499 W
13,949.00	93.85	359.84	10,375.06	3,505.95	-346.60	523,441.21	751,253.06	32° 26' 13.803 N	103° 39' 10.508 W
14,038.00	91.82	2.04	10,370.66	3,594.82	-345.14	523,530.08	751,254.52	32° 26' 14.683 N	103° 39' 10.484 W
14,128.00	91.47	0.63	10,368.07	3,684.75	-343.04	523,620.02	751,256.62	32° 26' 15.572 N	103° 39' 10.453 W
14,218.00	92.88	0.19	10,364.66	3,774.68	-342.40	523,709.95	751,257.26	32° 26' 16.462 N	103° 39' 10.439 W
14,307.00	90.99	1.25	10,361.65	3,863.62	-341.28	523,798.89	751,258.38	32° 26' 17.342 N	103° 39' 10.419 W
14,397.00	89.98	1.42	10,360.89	3,953.59	-339.18	523,888.86	751,260.47	32° 26' 18.232 N	103° 39' 10.388 W
14,486.00	89.67	0.81	10,361.16	4,042.57	-337.45	523,977.84	751,262.21	32° 26' 19.113 N	103° 39' 10.361 W
14,576.00	89.05	0.37	10,362.17	4,132.56	-336.53	524,067.83	751,263.13	32° 26' 20.003 N	103° 39' 10.344 W
14,665.00	88.66	0.45	10,363.95	4,221.54	-335.89	524,156.81	751,263.77	32° 26' 20.883 N	103° 39' 10.330 W
14,755.00	89.01	0.02	10,365.78	4,311.52	-335.52	524,246.79	751,264.14	32° 26' 21.774 N	103° 39' 10.319 W
14,844.00	88.57	359.31	10,367.66	4,400.50	-336.04	524,335.77	751,263.62	32° 26' 22.654 N	103° 39' 10.318 W
14,933.00	89.19	358.96	10,369.40	4,489.47	-337.38	524,424.74	751,262.28	32° 26' 23.535 N	103° 39' 10.327 W
15,023.00	92.53	358.61	10,368.04	4,579.43	-339.29	524,514.69	751,260.37	32° 26' 24.425 N	103° 39' 10.343 W
15,112.00	90.07	0.10	10,366.03	4,668.39	-340.29	524,603.66	751,259.37	32° 26' 25.305 N	103° 39' 10.348 W
15,201.00	90.77	359.84	10,365.37	4,757.39	-340.34	524,692.65	751,259.32	32° 26' 26.186 N	103° 39' 10.342 W
15,290.00	88.31	0.10	10,366.09	4,846.38	-340.39	524,781.64	751,259.27	32° 26' 27.067 N	103° 39' 10.336 W
15,380.00	88.79	359.49	10,368.36	4,936.35	-340.71	524,871.61	751,258.95	32° 26' 27.957 N	103° 39' 10.333 W
15,469.00	88.92	358.52	10,370.14	5,025.32	-342.25	524,960.58	751,257.41	32° 26' 28.837 N	103° 39' 10.344 W
15,558.00	89.67	357.20	10,371.24	5,114.25	-345.58	525,049.51	751,254.08	32° 26' 29.717 N	103° 39' 10.377 W



Aim Directional Services, LLC

Survey Report - Geographic

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Well Anderson #501H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3724.50usft (Nabors X50)
Site:	Anderson Fed Com 501H	MD Reference:	Well @ 3724.50usft (Nabors X50)
Well:	Anderson #501H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Single User Db-PR

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,647.00	90.02	356.76	10,371.48	5,203.12	-350.27	525,138.39	751,249.39	32° 26' 30.597 N	103° 39' 10.425 W
15,736.00	89.58	359.58	10,371.79	5,292.07	-353.11	525,227.33	751,246.55	32° 26' 31.477 N	103° 39' 10.451 W
15,826.00	89.71	358.17	10,372.35	5,382.04	-354.87	525,317.31	751,244.79	32° 26' 32.368 N	103° 39' 10.465 W
15,915.00	91.69	1.07	10,371.26	5,471.02	-355.46	525,406.29	751,244.19	32° 26' 33.248 N	103° 39' 10.465 W
16,004.00	90.37	0.81	10,369.66	5,559.99	-354.00	525,495.26	751,245.65	32° 26' 34.129 N	103° 39' 10.442 W
16,094.00	90.37	0.72	10,369.08	5,649.98	-352.80	525,585.25	751,246.86	32° 26' 35.019 N	103° 39' 10.421 W
16,183.00	91.34	0.63	10,367.75	5,738.97	-351.75	525,674.23	751,247.90	32° 26' 35.899 N	103° 39' 10.402 W
16,273.00	90.95	1.25	10,365.95	5,828.94	-350.28	525,764.20	751,249.38	32° 26' 36.790 N	103° 39' 10.378 W
16,363.00	93.19	1.07	10,362.70	5,918.85	-348.46	525,854.12	751,251.20	32° 26' 37.679 N	103° 39' 10.350 W
16,452.00	88.40	4.23	10,361.47	6,007.71	-344.34	525,942.98	751,255.32	32° 26' 38.558 N	103° 39' 10.296 W
16,542.00	87.78	3.53	10,364.47	6,097.45	-338.26	526,032.72	751,261.40	32° 26' 39.446 N	103° 39' 10.218 W
16,631.00	89.54	3.36	10,366.55	6,186.27	-332.91	526,121.53	751,266.75	32° 26' 40.324 N	103° 39' 10.149 W
16,721.00	88.09	1.51	10,368.41	6,276.16	-329.09	526,211.42	751,270.57	32° 26' 41.214 N	103° 39' 10.098 W
16,811.00	88.70	1.77	10,370.93	6,366.09	-326.51	526,301.35	751,273.15	32° 26' 42.103 N	103° 39' 10.061 W
16,900.00	89.19	358.79	10,372.57	6,455.06	-326.08	526,390.32	751,273.58	32° 26' 42.984 N	103° 39' 10.049 W
16,990.00	89.45	357.64	10,373.64	6,545.01	-328.88	526,480.27	751,270.78	32° 26' 43.874 N	103° 39' 10.075 W
17,079.00	89.71	356.68	10,374.29	6,633.90	-333.29	526,569.16	751,266.37	32° 26' 44.754 N	103° 39' 10.120 W
17,169.00	90.81	358.43	10,373.88	6,723.81	-337.13	526,659.07	751,262.53	32° 26' 45.644 N	103° 39' 10.158 W
17,258.00	91.82	359.84	10,371.84	6,812.77	-338.47	526,748.04	751,261.19	32° 26' 46.524 N	103° 39' 10.167 W
17,348.00	92.84	359.58	10,368.18	6,902.69	-338.93	526,837.96	751,260.73	32° 26' 47.414 N	103° 39' 10.166 W
17,437.00	89.49	358.70	10,366.37	6,991.65	-340.26	526,926.92	751,259.39	32° 26' 48.294 N	103° 39' 10.175 W
17,527.00	89.14	359.22	10,367.45	7,081.63	-341.90	527,016.90	751,257.76	32° 26' 49.185 N	103° 39' 10.187 W
17,616.00	90.42	358.87	10,367.79	7,170.62	-343.38	527,105.88	751,256.28	32° 26' 50.065 N	103° 39' 10.198 W
17,705.00	91.60	358.43	10,366.22	7,259.58	-345.48	527,194.84	751,254.18	32° 26' 50.945 N	103° 39' 10.216 W
17,795.00	92.18	357.82	10,363.25	7,349.48	-348.42	527,284.74	751,251.24	32° 26' 51.835 N	103° 39' 10.244 W
17,884.00	91.69	356.50	10,360.25	7,438.31	-352.83	527,373.58	751,246.83	32° 26' 52.715 N	103° 39' 10.288 W
17,974.00	91.21	354.92	10,357.97	7,528.03	-359.56	527,463.30	751,240.10	32° 26' 53.603 N	103° 39' 10.360 W
18,063.00	91.16	357.29	10,356.13	7,616.80	-365.60	527,552.06	751,234.06	32° 26' 54.482 N	103° 39' 10.424 W
18,152.00	90.90	358.87	10,354.53	7,705.73	-368.58	527,641.00	751,231.08	32° 26' 55.362 N	103° 39' 10.452 W
18,242.00	89.19	358.35	10,354.46	7,795.70	-370.77	527,730.97	751,228.89	32° 26' 56.252 N	103° 39' 10.471 W
18,331.00	90.37	357.91	10,354.80	7,884.65	-373.67	527,819.92	751,225.99	32° 26' 57.132 N	103° 39' 10.498 W
18,396.00	91.21	357.73	10,353.90	7,949.60	-376.14	527,884.86	751,223.52	32° 26' 57.775 N	103° 39' 10.522 W
Last Aim Svy									
18,446.75	91.21	357.73	10,352.83	8,000.30	-378.15	527,935.56	751,221.51	32° 26' 58.277 N	103° 39' 10.542 W
Actual LTP									
18,452.00	91.21	357.73	10,352.72	8,005.54	-378.36	527,940.81	751,221.30	32° 26' 58.329 N	103° 39' 10.544 W

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
229.00	228.99	1.44	0.87	First Aim Svy
10,715.65	10,455.32	276.56	-287.00	Actual FTP
18,396.00	10,353.90	7,949.60	-376.14	Last Aim Svy
18,446.75	10,352.83	8,000.30	-378.15	Actual LTP
18,452.00	10,352.72	8,005.54	-378.36	Proj to BHL

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------



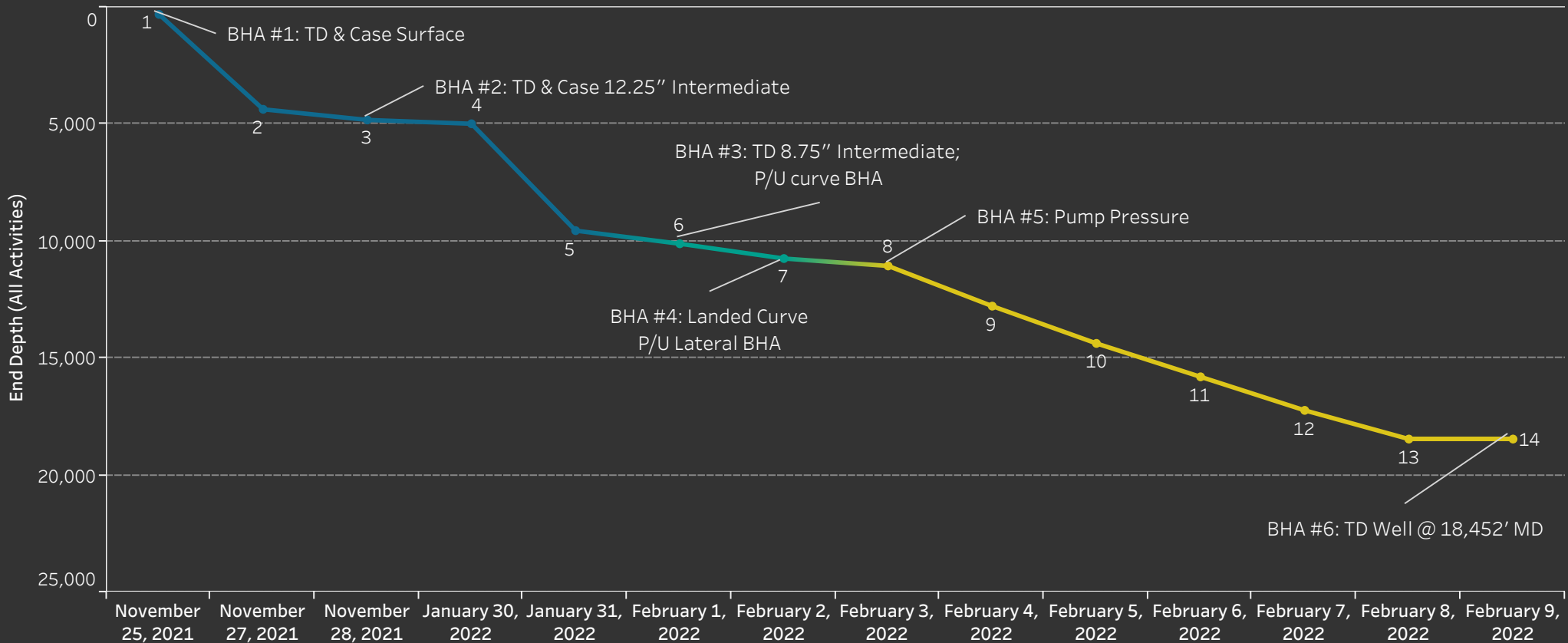
Aim Performance Solutions

Advance Energy Partners
 Anderson Fed Com 501H
 Nabors X50
 Lea
 WT-21-184





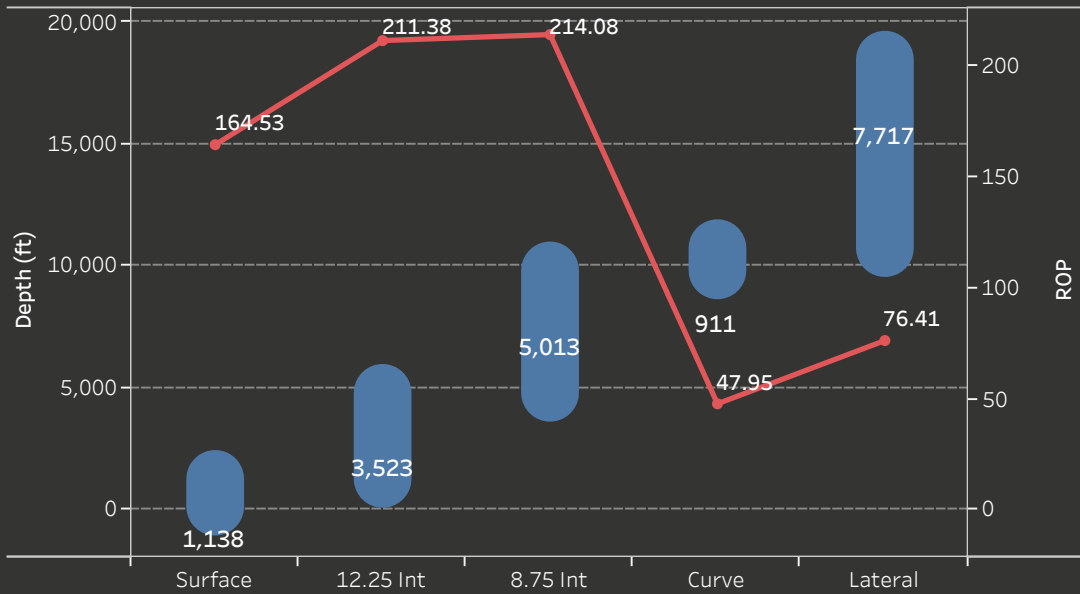
Advance Energy Partners Anderson Fed Com 501H Nabors X50 Days vs Depth All Activities





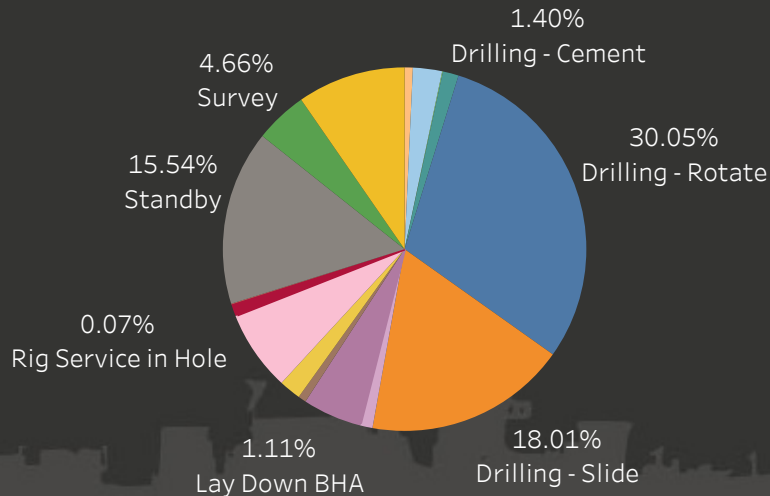
Advance Energy Partners Anderson Fed Com 501H Well Summary

Distance Drilled Progression & Average ROP



BHA Summary:

- BHA #1 - Drilled surface in 6.92 hours. Avg ROP of 164.53 ft/hr.
- BHA #2 - Drilled 12.25" intermediate in 16.67 hours. Avg ROP of 211.38 ft/hr.
- BHA #3 - Drilled 8.75" intermediate in 23.42 hours. Avg ROP of 214.08 ft/hr.
- BHA #4 - Drilled curve in 16.50 hours. Avg ROP of 50.00 ft/hr.
- BHA #5 - Drilled 316' in the lateral. Gained 600 psi on stand pipe while displacing and MWD stopped pulsing. Pallet wood was found on top of the float once above rotary.
- BHA #6 - Drilled lateral to TD.



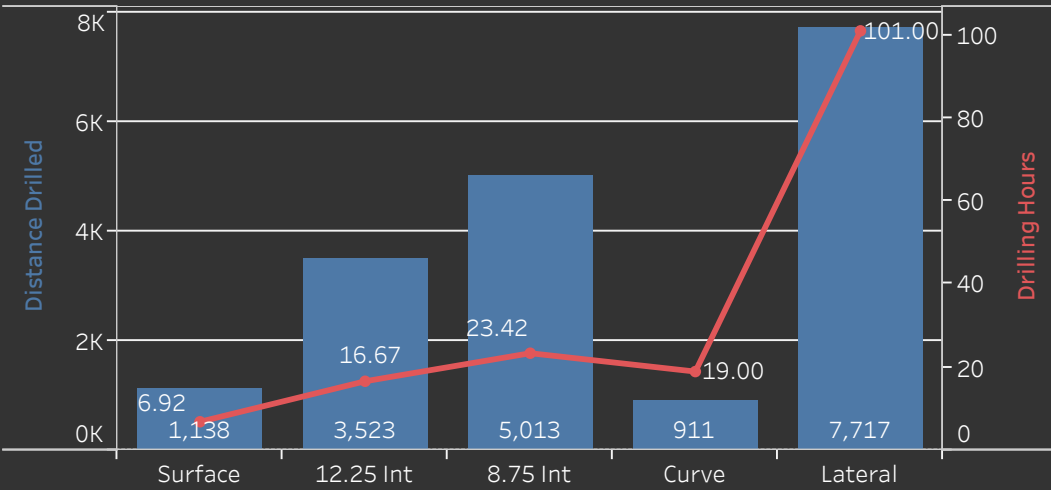
Activity Type

- Drilling - Change
- Circulating
- Connection
- Drilling - Cement
- Drilling - Rotate
- Drilling - Slide
- Lay Down BHA
- Lay Down DP
- Other
- Pick Up BHA
- POOH
- Rig Repair
- Rig Service in Hole
- Standby
- Survey
- TIH

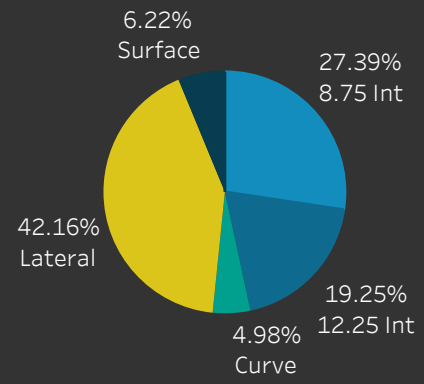
Well Performance by Section

Hole Section	Min. Start Time In Job Time Zone	Max. End Time In Job Time Zone	BHA Count	Section Days	Section Hours	Start Depth (ft)	End Depth (ft)	Distance Drilled	Drilling Hours	ROP
Surface	11/25/2021 7:00 AM	11/25/2021 5:00 PM	1	0.42	10.00	150	1,288	1,138	6.92	164.53
12.25 Int	11/27/2021 3:45 AM	11/28/2021 7:15 AM	1	1.15	27.50	1,288	4,811	3,523	16.67	211.38
8.75 Int	1/30/2022 4:40 PM	2/1/2022 9:00 AM	1	1.68	40.33	4,811	9,824	5,013	23.42	214.08
Curve	2/1/2022 9:30 AM	2/2/2022 8:45 PM	1	1.47	35.25	9,824	10,735	911	19.00	47.95
Lateral	2/2/2022 8:45 PM	2/9/2022 6:45 AM	2	6.42	154.00	10,735	18,452	7,717	101.00	76.41

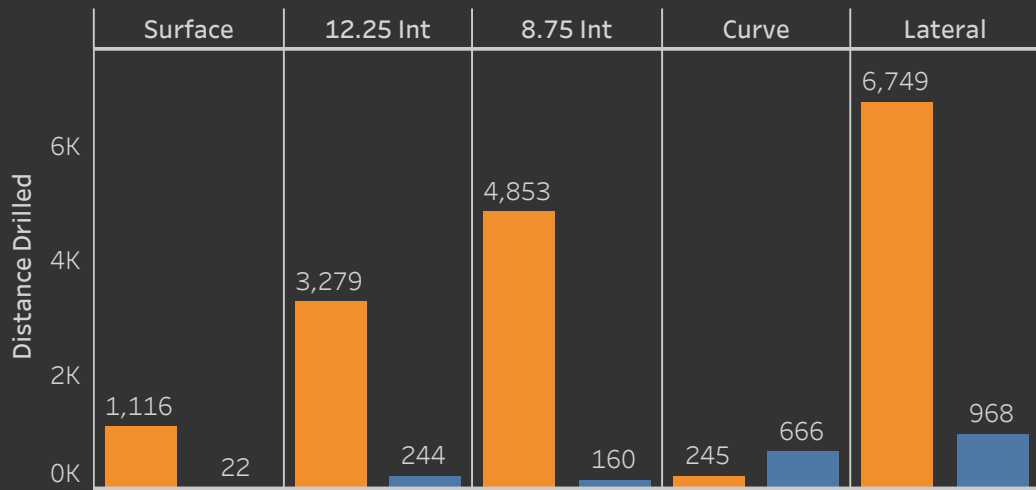
Distance Drilled and Drilling Hours per Section



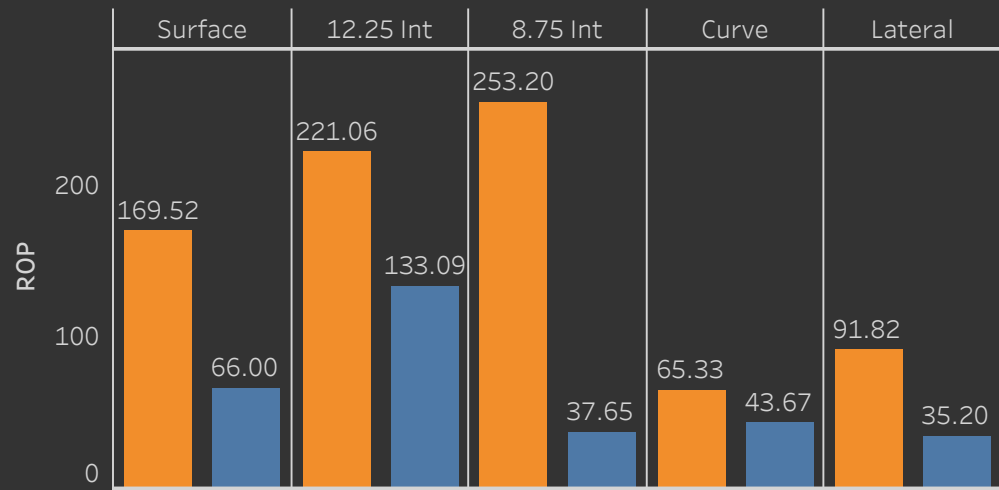
Section Footage Percentage



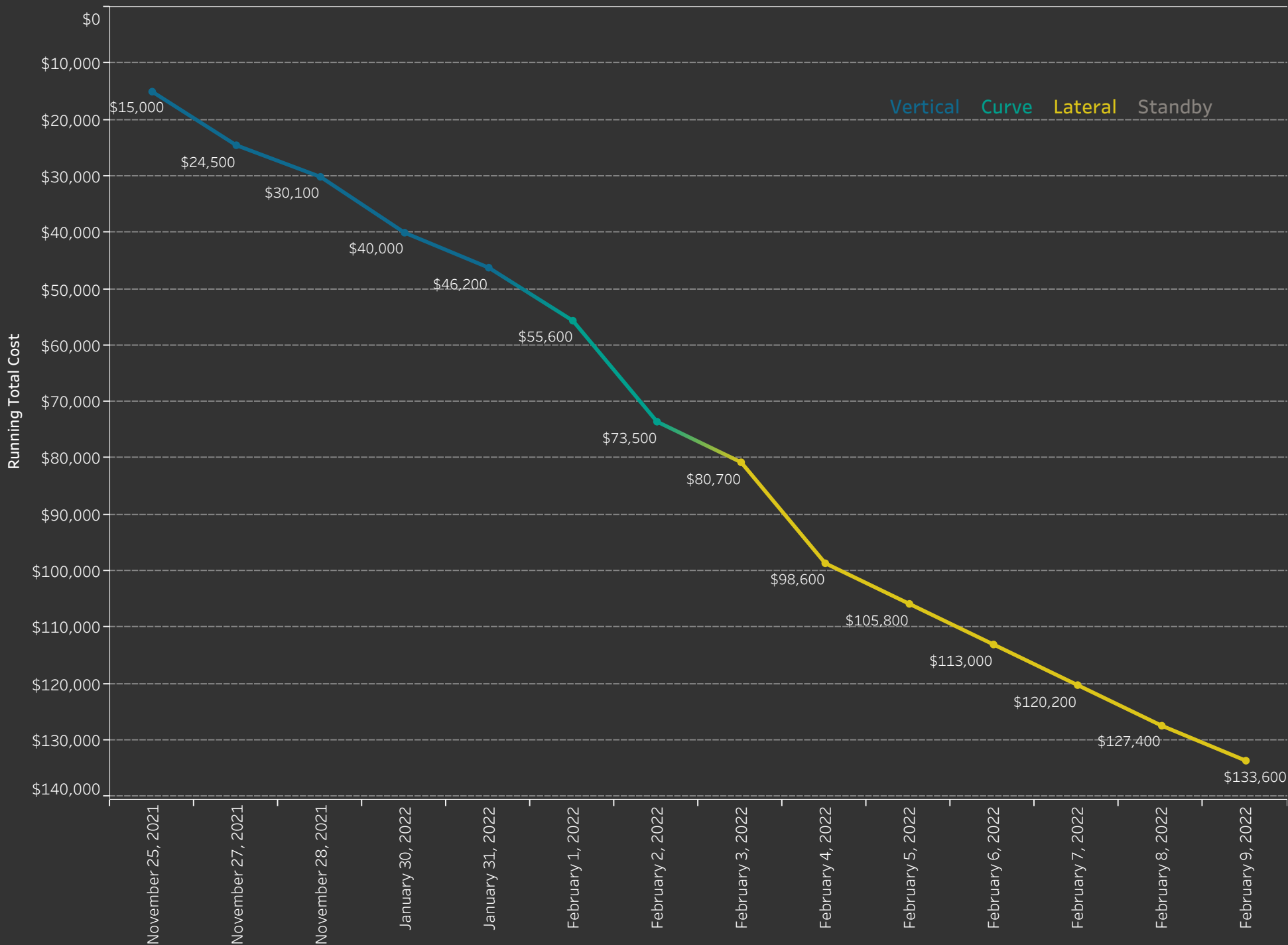
Rotate/Slide - Distance



Rotate/Slide - ROP



Running Daily Cost





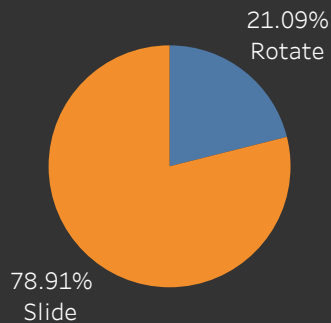
Advance Energy Partners Curve Analysis Anderson Fed Com 501H

Min. Start Time In Job Time Zone	Max. End Time In Job Time Zone	Start Depth (ft)	End Depth (ft)	Distance Drilled	Avg ROP
2/1/2022 4:05:00 PM	2/2/2022 2:20:00 PM	9,910	10,735	825	50.00

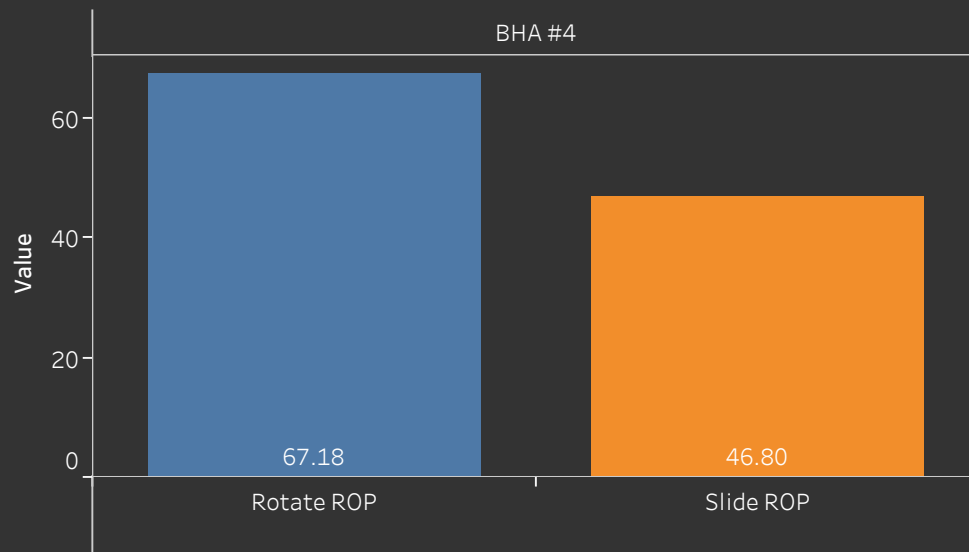
Drilling Hours	Rotate Hours	Slide Hours	Rotate Distance	Slide Distance
16.50	2.59	13.91	174	651

BHA #	Bend °	Stab OD	Hole Size	Start Depth (ft)	End Depth (ft)	Rotate Distance	Slide Distance	Drilling Hours	Rotate Hours	Slide Hours	Slide %
BHA #4	2.25	SS	8.75	9,910	10,735	174	651	16.50	2.59	13.91	78.91%

Slide vs Rotate Distance

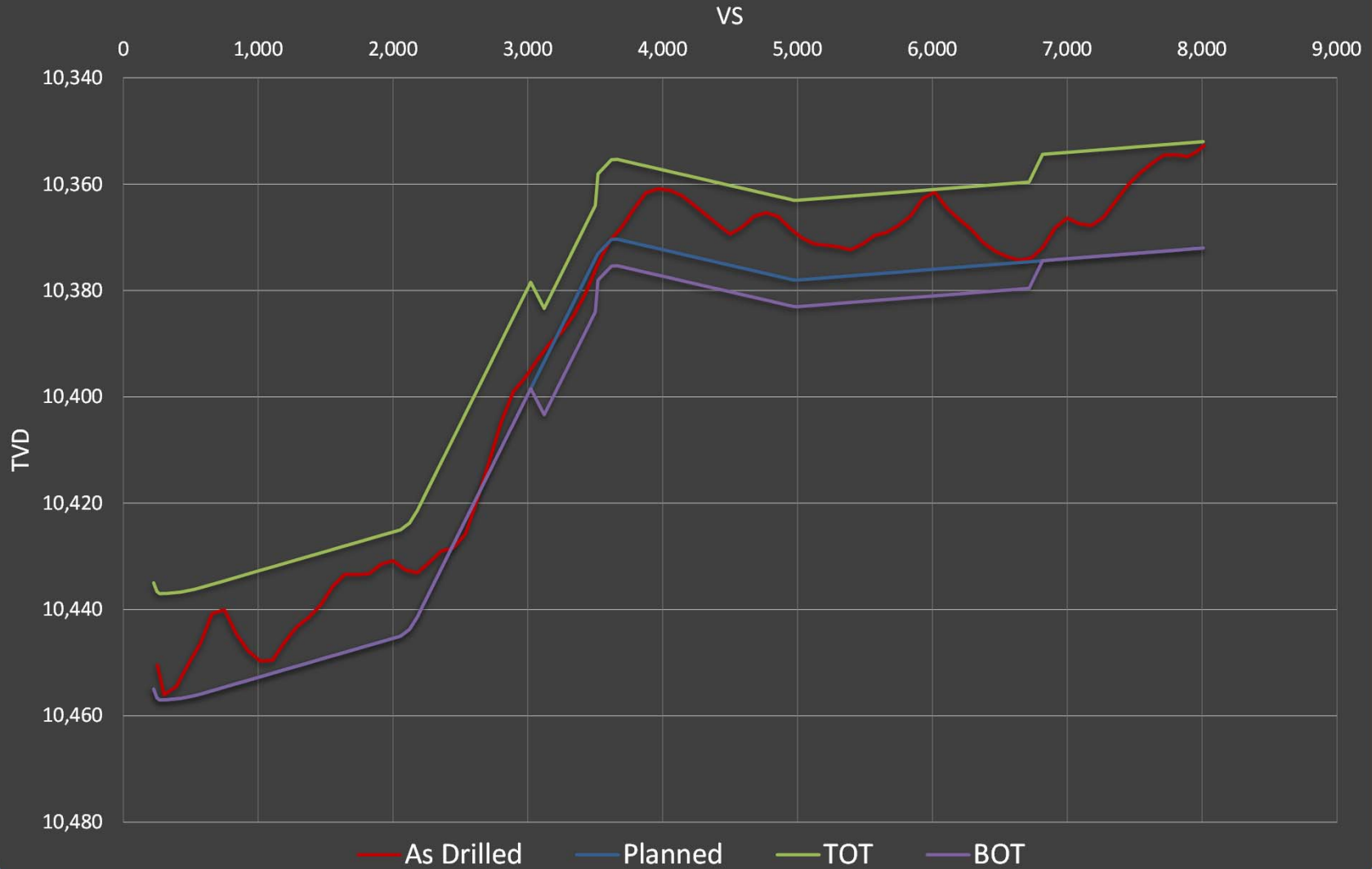


Slide & Rotate Average ROP





Target Zone Analysis



* Target windows are estimated off of real-time drilling target changes provided by geology.



American Resource Development LLC.

Ameredeve Operating

Hat Mesa

Anderson Fed Com - Pad D

Anderson Fed Com 501H

Anderson Fed Com 501H

Plan: FINAL AD

Survey Report - Geographic

01 November, 2022



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Well:	Anderson Fed Com 501H	North Reference:	Grid
Wellbore:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	Database:	AUS-COMPASS - EDM_15 - 32bit

Project	Hat Mesa, Lea County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Anderson Fed Com - Pad D				
Site Position:		Northing:	519,935.48 usft	Latitude:	32.4275250
From:	Lat/Long	Easting:	751,632.67 usft	Longitude:	-103.6517610
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.37 °

Well	Anderson Fed Com 501H					
Well Position	+N/-S	0.0 usft	Northing:	519,935.26 usft	Latitude:	32.4275250
	+E/-W	0.0 usft	Easting:	751,599.66 usft	Longitude:	-103.6518680
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,692.0 usft

Wellbore	Anderson Fed Com 501H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/17/2020	6.66	60.19	47,721.90685548

Design	FINAL AD				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	357.29	

Survey Tool Program	Date	11/1/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	18,452.0	FINAL AD (Anderson Fed Com 501H)	MWD	OWSG MWD - Standard	

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	519,935.26	751,599.66	32.4275250	-103.6518680
100.0	0.37	31.22	100.0	0.3	0.2	519,935.54	751,599.83	32.4275258	-103.6518674
200.0	0.73	31.22	200.0	1.1	0.7	519,936.36	751,600.32	32.4275280	-103.6518658
229.0	0.84	31.22	229.0	1.4	0.9	519,936.70	751,600.53	32.4275290	-103.6518651
300.0	0.63	19.57	300.0	2.2	1.3	519,937.51	751,600.93	32.4275312	-103.6518638
321.0	0.57	14.52	321.0	2.5	1.3	519,937.72	751,600.99	32.4275317	-103.6518636
400.0	0.23	23.83	400.0	3.0	1.5	519,938.25	751,601.16	32.4275332	-103.6518631
413.0	0.18	28.67	413.0	3.0	1.5	519,938.29	751,601.18	32.4275333	-103.6518630
505.0	0.13	285.66	505.0	3.2	1.5	519,938.44	751,601.15	32.4275337	-103.6518631
597.0	0.22	254.55	597.0	3.2	1.2	519,938.43	751,600.88	32.4275337	-103.6518640
600.0	0.22	255.64	600.0	3.2	1.2	519,938.42	751,600.86	32.4275337	-103.6518640
689.0	0.35	276.52	689.0	3.1	0.8	519,938.41	751,600.43	32.4275337	-103.6518654



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Well:	Anderson Fed Com 501H	North Reference:	Grid
Wellbore:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
700.0	0.39	269.80	700.0	3.1	0.7	519,938.41	751,600.36	32.4275337	-103.6518657	
781.0	0.75	246.11	781.0	2.9	-0.1	519,938.20	751,599.60	32.4275331	-103.6518681	
800.0	0.86	244.05	800.0	2.8	-0.3	519,938.09	751,599.35	32.4275328	-103.6518689	
878.0	1.32	239.25	878.0	2.1	-1.6	519,937.37	751,598.06	32.4275308	-103.6518731	
900.0	1.14	238.32	900.0	1.9	-2.0	519,937.13	751,597.65	32.4275302	-103.6518745	
973.0	0.53	230.64	972.9	1.3	-2.9	519,936.53	751,596.78	32.4275286	-103.6518773	
1,000.0	0.43	229.37	999.9	1.1	-3.1	519,936.39	751,596.60	32.4275282	-103.6518779	
1,066.0	0.18	220.18	1,065.9	0.9	-3.3	519,936.15	751,596.35	32.4275275	-103.6518787	
1,100.0	0.33	229.50	1,099.9	0.8	-3.4	519,936.04	751,596.24	32.4275272	-103.6518791	
1,155.0	0.57	234.24	1,154.9	0.5	-3.8	519,935.78	751,595.90	32.4275265	-103.6518802	
1,200.0	0.63	237.25	1,199.9	0.3	-4.2	519,935.52	751,595.51	32.4275258	-103.6518814	
1,218.0	0.66	238.29	1,217.9	0.1	-4.3	519,935.41	751,595.34	32.4275255	-103.6518820	
1,300.0	1.19	261.57	1,299.9	-0.2	-5.6	519,935.04	751,594.09	32.4275245	-103.6518860	
1,335.0	1.45	265.97	1,334.9	-0.3	-6.4	519,934.95	751,593.29	32.4275243	-103.6518886	
1,400.0	1.68	265.77	1,399.9	-0.4	-8.1	519,934.82	751,591.52	32.4275239	-103.6518944	
1,424.0	1.76	265.71	1,423.9	-0.5	-8.9	519,934.77	751,590.80	32.4275238	-103.6518967	
1,500.0	1.10	220.55	1,499.9	-1.1	-10.5	519,934.13	751,589.16	32.4275221	-103.6519020	
1,514.0	1.10	208.49	1,513.9	-1.4	-10.6	519,933.91	751,589.01	32.4275215	-103.6519025	
1,603.0	1.85	170.79	1,602.8	-3.5	-10.8	519,931.74	751,588.83	32.4275155	-103.6519031	
1,693.0	0.35	216.93	1,692.8	-5.2	-10.8	519,930.08	751,588.90	32.4275110	-103.6519030	
1,700.0	0.27	245.24	1,699.8	-5.2	-10.8	519,930.06	751,588.87	32.4275109	-103.6519031	
1,783.0	1.98	341.56	1,782.8	-3.9	-11.4	519,931.34	751,588.24	32.4275144	-103.6519051	
1,800.0	2.05	342.48	1,799.8	-3.4	-11.6	519,931.91	751,588.06	32.4275160	-103.6519057	
1,872.0	2.33	345.78	1,871.7	-0.7	-12.3	519,934.55	751,587.31	32.4275233	-103.6519080	
1,900.0	1.91	337.99	1,899.7	0.3	-12.7	519,935.53	751,587.00	32.4275260	-103.6519090	
1,962.0	1.23	303.33	1,961.7	1.6	-13.6	519,936.86	751,586.06	32.4275296	-103.6519120	
2,000.0	1.11	274.19	1,999.7	1.8	-14.3	519,937.11	751,585.35	32.4275303	-103.6519143	
2,052.0	1.41	238.64	2,051.7	1.5	-15.4	519,936.81	751,584.30	32.4275295	-103.6519177	
2,100.0	1.41	234.18	2,099.7	0.9	-16.3	519,936.16	751,583.32	32.4275278	-103.6519209	
2,141.0	1.41	230.38	2,140.6	0.3	-17.1	519,935.54	751,582.52	32.4275261	-103.6519235	
2,200.0	0.45	186.95	2,199.6	-0.4	-17.7	519,934.85	751,581.94	32.4275242	-103.6519254	
2,231.0	0.53	113.04	2,230.6	-0.6	-17.6	519,934.67	751,582.05	32.4275237	-103.6519251	
2,300.0	1.73	77.91	2,299.6	-0.5	-16.3	519,934.77	751,583.37	32.4275239	-103.6519208	
2,320.0	2.11	75.51	2,319.6	-0.3	-15.6	519,934.92	751,584.02	32.4275244	-103.6519187	
2,409.0	2.90	75.16	2,408.5	0.6	-11.9	519,935.91	751,587.78	32.4275270	-103.6519065	
2,498.0	2.20	70.94	2,497.4	1.8	-8.1	519,937.04	751,591.57	32.4275300	-103.6518942	
2,500.0	2.18	70.90	2,499.4	1.8	-8.0	519,937.07	751,591.65	32.4275301	-103.6518939	
2,588.0	1.41	68.04	2,587.4	2.8	-5.4	519,938.02	751,594.23	32.4275327	-103.6518855	
2,600.0	1.51	68.14	2,599.4	2.9	-5.1	519,938.14	751,594.52	32.4275330	-103.6518846	
2,677.0	2.15	68.57	2,676.3	3.8	-2.9	519,939.04	751,596.80	32.4275354	-103.6518772	
2,700.0	2.03	71.23	2,699.3	4.1	-2.1	519,939.33	751,597.59	32.4275362	-103.6518746	
2,766.0	1.71	80.87	2,765.3	4.6	0.0	519,939.86	751,599.67	32.4275377	-103.6518679	
2,800.0	1.71	82.83	2,799.3	4.7	1.0	519,940.00	751,600.67	32.4275380	-103.6518646	
2,856.0	1.71	86.06	2,855.3	4.9	2.7	519,940.17	751,602.33	32.4275384	-103.6518592	
2,900.0	1.37	99.00	2,899.2	4.9	3.8	519,940.13	751,603.51	32.4275383	-103.6518554	
2,946.0	1.14	119.55	2,945.2	4.6	4.8	519,939.82	751,604.45	32.4275374	-103.6518524	
3,000.0	1.08	147.82	2,999.2	3.9	5.5	519,939.12	751,605.19	32.4275355	-103.6518500	
3,036.0	1.19	165.43	3,035.2	3.2	5.8	519,938.47	751,605.47	32.4275337	-103.6518491	
3,100.0	1.09	134.98	3,099.2	2.1	6.4	519,937.40	751,606.06	32.4275308	-103.6518472	
3,125.0	1.14	123.06	3,124.2	1.8	6.8	519,937.09	751,606.44	32.4275299	-103.6518460	
3,200.0	1.61	127.64	3,199.2	0.8	8.2	519,936.04	751,607.90	32.4275270	-103.6518413	
3,215.0	1.71	128.25	3,214.2	0.5	8.6	519,935.77	751,608.25	32.4275263	-103.6518402	
3,304.0	2.07	134.84	3,303.1	-1.4	10.8	519,933.82	751,610.43	32.4275209	-103.6518331	
3,394.0	1.19	183.00	3,393.1	-3.5	11.9	519,931.74	751,611.53	32.4275151	-103.6518296	
3,400.0	1.16	186.74	3,399.1	-3.6	11.9	519,931.62	751,611.52	32.4275148	-103.6518296	



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredeve Operating	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Well:	Anderson Fed Com 501H	North Reference:	Grid
Wellbore:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3,483.0	1.32	241.10	3,482.1	-4.9	10.9	519,930.32	751,610.59	32.4275112	-103.6518327	
3,500.0	1.32	239.92	3,499.1	-5.1	10.6	519,930.13	751,610.24	32.4275107	-103.6518338	
3,573.0	1.32	234.86	3,572.0	-6.0	9.2	519,929.22	751,608.83	32.4275083	-103.6518384	
3,600.0	1.24	229.53	3,599.0	-6.4	8.7	519,928.85	751,608.35	32.4275072	-103.6518399	
3,663.0	1.10	214.47	3,662.0	-7.4	7.8	519,927.91	751,607.49	32.4275047	-103.6518428	
3,700.0	1.08	205.50	3,699.0	-8.0	7.5	519,927.31	751,607.14	32.4275030	-103.6518439	
3,752.0	1.10	192.85	3,751.0	-8.9	7.2	519,926.38	751,606.82	32.4275005	-103.6518450	
3,800.0	1.15	180.26	3,799.0	-9.8	7.1	519,925.45	751,606.72	32.4274979	-103.6518453	
3,842.0	1.23	170.44	3,841.0	-10.7	7.1	519,924.58	751,606.79	32.4274955	-103.6518451	
3,900.0	0.75	202.99	3,899.0	-11.6	7.1	519,923.62	751,606.74	32.4274929	-103.6518453	
3,932.0	0.70	234.42	3,931.0	-12.0	6.8	519,923.31	751,606.50	32.4274920	-103.6518461	
4,000.0	1.07	267.43	3,999.0	-12.2	5.9	519,923.04	751,605.53	32.4274913	-103.6518492	
4,021.0	1.23	272.92	4,020.0	-12.2	5.4	519,923.04	751,605.11	32.4274913	-103.6518506	
4,100.0	1.03	282.01	4,099.0	-12.0	3.9	519,923.23	751,603.56	32.4274919	-103.6518556	
4,111.0	1.01	283.55	4,110.0	-12.0	3.7	519,923.28	751,603.37	32.4274920	-103.6518562	
4,200.0	1.01	287.95	4,198.9	-11.6	2.2	519,923.70	751,601.86	32.4274932	-103.6518611	
4,290.0	0.88	293.75	4,288.9	-11.0	0.8	519,924.23	751,600.47	32.4274947	-103.6518656	
4,300.0	0.86	293.13	4,298.9	-11.0	0.7	519,924.29	751,600.33	32.4274948	-103.6518660	
4,379.0	0.70	286.98	4,377.9	-10.6	-0.3	519,924.66	751,599.33	32.4274959	-103.6518693	
4,400.0	0.69	286.49	4,398.9	-10.5	-0.6	519,924.73	751,599.08	32.4274961	-103.6518701	
4,469.0	0.66	284.78	4,467.9	-10.3	-1.4	519,924.95	751,598.30	32.4274967	-103.6518726	
4,500.0	0.69	289.57	4,498.9	-10.2	-1.7	519,925.06	751,597.95	32.4274970	-103.6518737	
4,559.0	0.75	297.61	4,557.9	-9.9	-2.4	519,925.36	751,597.28	32.4274978	-103.6518759	
4,600.0	0.74	305.99	4,598.9	-9.6	-2.8	519,925.64	751,596.83	32.4274986	-103.6518774	
4,648.0	0.75	315.81	4,646.9	-9.2	-3.3	519,926.04	751,596.36	32.4274997	-103.6518789	
4,700.0	0.88	319.40	4,698.9	-8.7	-3.8	519,926.59	751,595.86	32.4275012	-103.6518805	
4,738.0	0.97	321.43	4,736.9	-8.2	-4.2	519,927.06	751,595.47	32.4275026	-103.6518817	
4,800.0	1.01	331.09	4,798.9	-7.3	-4.8	519,927.95	751,594.88	32.4275050	-103.6518836	
4,900.0	1.12	344.62	4,898.9	-5.6	-5.5	519,929.67	751,594.19	32.4275097	-103.6518858	
4,912.0	1.14	346.04	4,910.9	-5.4	-5.5	519,929.89	751,594.13	32.4275104	-103.6518860	
5,002.0	1.10	354.30	5,000.8	-3.6	-5.8	519,931.62	751,593.83	32.4275151	-103.6518869	
5,091.0	1.23	350.35	5,089.8	-1.9	-6.1	519,933.41	751,593.59	32.4275200	-103.6518877	
5,100.0	1.23	350.27	5,098.8	-1.7	-6.1	519,933.61	751,593.56	32.4275206	-103.6518878	
5,181.0	1.27	349.56	5,179.8	0.1	-6.4	519,935.35	751,593.25	32.4275254	-103.6518888	
5,200.0	1.29	349.04	5,198.8	0.5	-6.5	519,935.76	751,593.17	32.4275265	-103.6518890	
5,270.0	1.36	347.27	5,268.8	2.1	-6.8	519,937.35	751,592.83	32.4275309	-103.6518901	
5,300.0	1.17	321.54	5,298.8	2.7	-7.1	519,937.94	751,592.56	32.4275325	-103.6518909	
5,359.0	1.58	274.23	5,357.8	3.2	-8.3	519,938.47	751,591.38	32.4275340	-103.6518948	
5,400.0	2.15	249.02	5,398.7	3.0	-9.6	519,938.23	751,590.09	32.4275334	-103.6518989	
5,449.0	3.12	234.07	5,447.7	1.9	-11.5	519,937.12	751,588.16	32.4275303	-103.6519052	
5,500.0	4.14	232.95	5,498.6	-0.1	-14.1	519,935.20	751,585.56	32.4275251	-103.6519137	
5,539.0	4.92	232.40	5,537.5	-1.9	-16.5	519,933.33	751,583.11	32.4275200	-103.6519216	
5,600.0	5.22	232.58	5,598.2	-5.2	-20.8	519,930.05	751,578.84	32.4275110	-103.6519356	
5,628.0	5.36	232.66	5,626.1	-6.8	-22.9	519,928.48	751,576.79	32.4275068	-103.6519423	
5,700.0	5.18	230.91	5,697.8	-10.9	-28.1	519,924.39	751,571.59	32.4274956	-103.6519592	
5,718.0	5.14	230.46	5,715.7	-11.9	-29.3	519,923.36	751,570.33	32.4274928	-103.6519633	
5,808.0	5.05	229.23	5,805.4	-17.1	-35.4	519,918.21	751,564.23	32.4274788	-103.6519832	
5,897.0	4.97	227.83	5,894.0	-22.2	-41.3	519,913.06	751,558.40	32.4274647	-103.6520022	
5,900.0	4.97	227.80	5,897.0	-22.4	-41.4	519,912.89	751,558.21	32.4274642	-103.6520028	
5,986.0	4.97	226.86	5,982.7	-27.4	-46.9	519,907.84	751,552.73	32.4274505	-103.6520206	
6,000.0	4.94	227.03	5,996.6	-28.3	-47.8	519,907.01	751,551.85	32.4274482	-103.6520235	
6,076.0	4.79	228.00	6,072.4	-32.6	-52.6	519,902.66	751,547.09	32.4274363	-103.6520390	
6,100.0	4.78	227.56	6,096.3	-33.9	-54.0	519,901.32	751,545.61	32.4274327	-103.6520438	
6,166.0	4.75	226.33	6,162.1	-37.7	-58.1	519,897.57	751,541.61	32.4274224	-103.6520569	
6,200.0	4.70	225.74	6,195.9	-39.6	-60.1	519,895.63	751,539.59	32.4274171	-103.6520635	



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredeve Operating	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Well:	Anderson Fed Com 501H	North Reference:	Grid
Wellbore:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
6,255.0	4.62	224.75	6,250.8	-42.8	-63.2	519,892.48	751,536.42	32.4274085	-103.6520738	
6,300.0	4.55	224.84	6,295.6	-45.3	-65.8	519,889.93	751,533.88	32.4274016	-103.6520821	
6,345.0	4.48	224.93	6,340.5	-47.8	-68.3	519,887.42	751,531.38	32.4273947	-103.6520902	
6,400.0	4.43	225.41	6,395.3	-50.9	-71.3	519,884.41	751,528.35	32.4273865	-103.6521001	
6,434.0	4.40	225.72	6,429.2	-52.7	-73.2	519,882.58	751,526.48	32.4273815	-103.6521062	
6,500.0	4.20	226.67	6,495.0	-56.1	-76.7	519,879.15	751,522.91	32.4273721	-103.6521179	
6,524.0	4.13	227.04	6,519.0	-57.3	-78.0	519,877.96	751,521.64	32.4273689	-103.6521220	
6,600.0	3.87	226.44	6,594.8	-60.9	-81.9	519,874.33	751,517.78	32.4273590	-103.6521346	
6,613.0	3.82	226.33	6,607.7	-61.5	-82.5	519,873.73	751,517.15	32.4273573	-103.6521367	
6,703.0	3.74	224.14	6,697.5	-65.7	-86.7	519,869.55	751,512.94	32.4273459	-103.6521504	
6,792.0	3.43	223.43	6,786.4	-69.7	-90.6	519,865.53	751,509.09	32.4273349	-103.6521630	
6,800.0	3.42	223.57	6,794.4	-70.1	-90.9	519,865.19	751,508.76	32.4273340	-103.6521640	
6,882.0	3.34	225.10	6,876.2	-73.5	-94.3	519,861.73	751,505.38	32.4273245	-103.6521751	
6,900.0	3.32	224.61	6,894.2	-74.3	-95.0	519,860.99	751,504.64	32.4273225	-103.6521775	
6,971.0	3.25	222.64	6,965.1	-77.2	-97.8	519,858.04	751,501.83	32.4273145	-103.6521866	
7,000.0	3.21	221.65	6,994.0	-78.4	-98.9	519,856.83	751,500.74	32.4273112	-103.6521902	
7,061.0	3.12	219.48	7,054.9	-81.0	-101.1	519,854.27	751,498.55	32.4273042	-103.6521973	
7,100.0	3.95	225.32	7,093.9	-82.8	-102.7	519,852.51	751,496.92	32.4272994	-103.6522027	
7,150.0	5.05	229.94	7,143.7	-85.4	-105.6	519,849.88	751,494.01	32.4272922	-103.6522121	
7,200.0	5.01	229.99	7,193.5	-88.2	-109.0	519,847.06	751,490.65	32.4272845	-103.6522231	
7,240.0	4.97	230.03	7,233.4	-90.4	-111.7	519,844.83	751,487.99	32.4272784	-103.6522318	
7,300.0	4.91	229.91	7,293.1	-93.8	-115.6	519,841.51	751,484.03	32.4272693	-103.6522446	
7,329.0	4.88	229.85	7,322.0	-95.4	-117.5	519,839.91	751,482.14	32.4272650	-103.6522508	
7,400.0	4.74	227.85	7,392.8	-99.3	-122.0	519,836.00	751,477.66	32.4272543	-103.6522654	
7,419.0	4.70	227.30	7,411.7	-100.3	-123.2	519,834.94	751,476.51	32.4272514	-103.6522692	
7,500.0	4.50	226.21	7,492.5	-104.8	-127.9	519,830.49	751,471.77	32.4272393	-103.6522846	
7,598.0	4.26	224.75	7,590.2	-110.0	-133.2	519,825.25	751,466.44	32.4272250	-103.6523020	
7,600.0	4.26	224.74	7,592.2	-110.1	-133.3	519,825.14	751,466.33	32.4272247	-103.6523024	
7,688.0	4.09	224.31	7,679.9	-114.7	-137.8	519,820.58	751,461.84	32.4272122	-103.6523170	
7,700.0	4.19	225.97	7,691.9	-115.3	-138.4	519,819.97	751,461.23	32.4272105	-103.6523190	
7,778.0	4.88	235.04	7,769.7	-119.2	-143.2	519,816.09	751,456.46	32.4272000	-103.6523345	
7,800.0	4.88	235.21	7,791.6	-120.2	-144.7	519,815.02	751,454.93	32.4271970	-103.6523395	
7,867.0	4.88	235.74	7,858.3	-123.5	-149.4	519,811.79	751,450.23	32.4271882	-103.6523548	
7,900.0	4.80	235.74	7,891.2	-125.0	-151.7	519,810.22	751,447.93	32.4271840	-103.6523623	
7,957.0	4.66	235.74	7,948.0	-127.7	-155.6	519,807.57	751,444.04	32.4271768	-103.6523749	
8,000.0	4.57	235.58	7,990.9	-129.6	-158.5	519,805.62	751,441.19	32.4271715	-103.6523843	
8,047.0	4.48	235.39	8,037.7	-131.7	-161.5	519,803.52	751,438.13	32.4271657	-103.6523942	
8,100.0	4.48	234.87	8,090.6	-134.1	-164.9	519,801.15	751,434.73	32.4271593	-103.6524053	
8,136.0	4.48	234.51	8,126.5	-135.7	-167.2	519,799.53	751,432.44	32.4271549	-103.6524127	
8,200.0	4.32	231.86	8,190.3	-138.7	-171.2	519,796.59	751,428.51	32.4271468	-103.6524255	
8,226.0	4.26	230.73	8,216.2	-139.9	-172.7	519,795.37	751,426.99	32.4271435	-103.6524305	
8,300.0	5.50	225.61	8,289.9	-144.1	-177.3	519,791.15	751,422.32	32.4271320	-103.6524457	
8,315.0	5.76	224.84	8,304.9	-145.2	-178.4	519,790.11	751,421.28	32.4271292	-103.6524491	
8,404.0	6.11	224.14	8,393.4	-151.7	-184.8	519,783.54	751,414.83	32.4271112	-103.6524701	
8,494.0	5.85	223.26	8,482.9	-158.5	-191.3	519,776.77	751,408.35	32.4270927	-103.6524913	
8,500.0	5.84	223.18	8,488.9	-158.9	-191.7	519,776.32	751,407.94	32.4270915	-103.6524926	
8,584.0	5.63	222.03	8,572.4	-165.1	-197.4	519,770.15	751,402.25	32.4270746	-103.6525112	
8,600.0	5.53	221.91	8,588.4	-166.3	-198.4	519,768.99	751,401.21	32.4270715	-103.6525146	
8,673.0	5.10	221.32	8,661.0	-171.3	-202.9	519,763.93	751,396.72	32.4270577	-103.6525292	
8,700.0	4.99	220.54	8,687.9	-173.1	-204.5	519,762.14	751,395.16	32.4270527	-103.6525343	
8,763.0	4.75	218.60	8,750.7	-177.2	-207.9	519,758.02	751,391.75	32.4270415	-103.6525454	
8,800.0	4.52	215.77	8,787.6	-179.6	-209.7	519,755.64	751,389.95	32.4270350	-103.6525513	
8,852.0	4.22	211.30	8,839.4	-182.9	-211.9	519,752.34	751,387.75	32.4270259	-103.6525585	
8,900.0	4.85	209.21	8,887.3	-186.2	-213.8	519,749.06	751,385.85	32.4270170	-103.6525648	
8,942.0	5.41	207.79	8,929.1	-189.5	-215.6	519,745.76	751,384.05	32.4270079	-103.6525706	



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Well:	Anderson Fed Com 501H	North Reference:	Grid
Wellbore:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
9,000.0	5.45	213.55	8,986.9	-194.2	-218.4	519,741.04	751,381.26	32.4269950	-103.6525798	
9,031.0	5.49	216.58	9,017.7	-196.6	-220.1	519,738.63	751,379.56	32.4269884	-103.6525853	
9,100.0	5.27	224.85	9,086.4	-201.5	-224.3	519,733.73	751,375.36	32.4269750	-103.6525991	
9,121.0	5.23	227.48	9,107.3	-202.9	-225.7	519,732.40	751,373.97	32.4269714	-103.6526036	
9,200.0	4.54	225.67	9,186.0	-207.5	-230.6	519,727.78	751,369.08	32.4269588	-103.6526195	
9,211.0	4.44	225.37	9,197.0	-208.1	-231.2	519,727.18	751,368.47	32.4269571	-103.6526215	
9,301.0	3.65	220.62	9,286.8	-212.7	-235.5	519,722.55	751,364.13	32.4269445	-103.6526357	
9,390.0	2.81	218.51	9,375.6	-216.6	-238.7	519,718.70	751,360.92	32.4269339	-103.6526462	
9,400.0	2.85	218.00	9,385.6	-217.0	-239.0	519,718.31	751,360.62	32.4269329	-103.6526472	
9,480.0	3.16	214.38	9,465.5	-220.3	-241.5	519,714.92	751,358.15	32.4269236	-103.6526552	
9,500.0	2.84	214.27	9,485.5	-221.2	-242.1	519,714.06	751,357.56	32.4269213	-103.6526572	
9,570.0	1.71	213.59	9,555.4	-223.5	-243.7	519,711.76	751,356.00	32.4269150	-103.6526622	
9,600.0	0.93	227.76	9,585.4	-224.0	-244.1	519,711.22	751,355.58	32.4269135	-103.6526636	
9,659.0	0.97	349.73	9,644.4	-223.9	-244.5	519,711.39	751,355.14	32.4269140	-103.6526651	
9,700.0	1.09	358.60	9,685.4	-223.1	-244.6	519,712.13	751,355.06	32.4269160	-103.6526653	
9,749.0	1.27	6.70	9,734.4	-222.1	-244.5	519,713.13	751,355.12	32.4269187	-103.6526651	
9,767.0	1.01	8.28	9,752.4	-221.8	-244.5	519,713.49	751,355.16	32.4269197	-103.6526649	
9,804.0	1.05	15.13	9,789.4	-221.1	-244.4	519,714.14	751,355.30	32.4269215	-103.6526645	
9,894.0	2.42	344.81	9,879.4	-218.5	-244.6	519,716.77	751,355.01	32.4269287	-103.6526654	
9,900.0	2.93	343.62	9,885.4	-218.2	-244.7	519,717.04	751,354.94	32.4269295	-103.6526656	
KOP 9,910.0	3.78	342.35	9,895.3	-217.7	-244.9	519,717.60	751,354.77	32.4269310	-103.6526661	
9,925.0	5.85	347.11	9,910.3	-216.5	-245.2	519,718.81	751,354.45	32.4269344	-103.6526672	
9,950.0	9.35	350.32	9,935.1	-213.2	-245.8	519,722.06	751,353.82	32.4269433	-103.6526691	
9,975.0	12.86	351.79	9,959.6	-208.4	-246.6	519,726.82	751,353.08	32.4269564	-103.6526714	
9,983.0	13.98	352.11	9,967.4	-206.6	-246.8	519,728.65	751,352.82	32.4269614	-103.6526722	
10,000.0	15.71	350.99	9,983.8	-202.3	-247.5	519,732.96	751,352.18	32.4269733	-103.6526742	
10,050.0	20.81	348.77	10,031.3	-186.9	-250.3	519,748.37	751,349.39	32.4270157	-103.6526829	
10,073.0	23.16	348.06	10,052.6	-178.5	-252.0	519,756.80	751,347.66	32.4270389	-103.6526884	
10,100.0	24.63	347.88	10,077.3	-167.8	-254.3	519,767.49	751,345.38	32.4270683	-103.6526955	
10,162.0	28.00	347.54	10,132.8	-140.9	-260.1	519,794.34	751,339.52	32.4271422	-103.6527140	
10,200.0	31.56	347.29	10,165.8	-122.5	-264.3	519,812.76	751,335.41	32.4271929	-103.6527269	
10,252.0	36.44	347.01	10,208.9	-94.2	-270.7	519,841.10	751,328.94	32.4272709	-103.6527473	
10,300.0	37.33	349.95	10,247.3	-65.9	-276.5	519,869.33	751,323.19	32.4273486	-103.6527653	
10,341.0	38.15	352.37	10,279.7	-41.1	-280.3	519,894.12	751,319.34	32.4274168	-103.6527773	
10,350.0	39.00	352.95	10,286.8	-35.6	-281.0	519,899.69	751,318.63	32.4274322	-103.6527795	
10,400.0	43.78	355.84	10,324.3	-2.7	-284.2	519,932.57	751,315.44	32.4275226	-103.6527892	
10,431.0	46.77	357.38	10,346.1	19.3	-285.5	519,954.56	751,314.14	32.4275830	-103.6527929	
10,450.0	49.67	358.05	10,358.7	33.4	-286.1	519,968.71	751,313.58	32.4276220	-103.6527944	
10,475.0	53.50	358.84	10,374.3	53.0	-286.6	519,988.29	751,313.05	32.4276758	-103.6527957	
10,500.0	57.33	359.57	10,388.5	73.6	-286.9	520,008.87	751,312.77	32.4277324	-103.6527962	
10,520.0	60.40	0.10	10,398.8	90.7	-286.9	520,025.98	751,312.72	32.4277794	-103.6527960	
10,525.0	61.11	0.12	10,401.2	95.1	-286.9	520,030.35	751,312.73	32.4277914	-103.6527959	
10,550.0	64.63	0.22	10,412.6	117.3	-286.9	520,052.59	751,312.80	32.4278525	-103.6527952	
10,575.0	68.16	0.32	10,422.7	140.2	-286.8	520,075.50	751,312.91	32.4279155	-103.6527944	
10,600.0	71.69	0.41	10,431.2	163.7	-286.6	520,098.97	751,313.06	32.4279800	-103.6527934	
10,610.0	73.10	0.45	10,434.3	173.2	-286.5	520,108.51	751,313.13	32.4280062	-103.6527930	
10,628.0	74.76	0.14	10,439.2	190.5	-286.4	520,125.78	751,313.22	32.4280537	-103.6527924	
NMM 10669 6 Exit at 10628.0 MD										
10,650.0	76.79	359.77	10,444.6	211.9	-286.5	520,147.13	751,313.20	32.4281124	-103.6527920	
10,678.0	79.38	359.31	10,450.4	239.3	-286.7	520,174.52	751,312.98	32.4281877	-103.6527921	
10,700.0	83.06	359.55	10,453.8	261.0	-286.9	520,196.26	751,312.76	32.4282474	-103.6527924	
10,714.4	85.46	359.70	10,455.2	275.3	-287.0	520,210.56	751,312.67	32.4282867	-103.6527924	
Anderson Fed Com 501H LP										
10,725.0	87.24	359.81	10,455.9	285.9	-287.0	520,221.16	751,312.62	32.4283159	-103.6527923	
10,728.0	87.74	359.84	10,456.0	288.9	-287.0	520,224.16	751,312.62	32.4283241	-103.6527923	



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Well:	Anderson Fed Com 501H	North Reference:	Grid
Wellbore:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,750.0	89.32	359.30	10,456.6	310.9	-287.2	520,246.15	751,312.45	32.4283846	-103.6527924	
10,800.0	92.91	358.08	10,455.6	360.9	-288.3	520,296.12	751,311.31	32.4285219	-103.6527950	
10,818.0	94.20	357.64	10,454.5	378.8	-289.0	520,314.07	751,310.64	32.4285713	-103.6527968	
10,907.0	91.16	357.82	10,450.3	467.6	-292.5	520,402.89	751,307.12	32.4288155	-103.6528064	
10,997.0	93.85	356.68	10,446.4	557.4	-296.9	520,492.69	751,302.81	32.4290624	-103.6528185	
11,000.0	93.84	356.76	10,446.2	560.4	-297.0	520,495.68	751,302.63	32.4290706	-103.6528190	
11,086.0	93.45	359.05	10,440.7	646.2	-300.2	520,581.45	751,299.50	32.4293064	-103.6528274	
11,100.0	92.51	359.04	10,440.0	660.2	-300.4	520,595.42	751,299.26	32.4293448	-103.6528279	
11,150.0	89.17	358.99	10,439.3	710.1	-301.3	520,645.40	751,298.40	32.4294822	-103.6528297	
11,176.0	87.43	358.96	10,440.1	736.1	-301.7	520,671.39	751,297.94	32.4295536	-103.6528306	
11,200.0	87.24	358.53	10,441.2	760.1	-302.2	520,695.36	751,297.41	32.4296195	-103.6528318	
11,265.0	86.73	357.38	10,444.6	825.0	-304.6	520,760.22	751,295.10	32.4297979	-103.6528380	
11,300.0	87.67	358.00	10,446.3	859.9	-306.0	520,795.15	751,293.69	32.4298939	-103.6528418	
11,355.0	89.14	358.96	10,447.8	914.8	-307.4	520,850.11	751,292.23	32.4300450	-103.6528454	
11,400.0	88.79	358.47	10,448.6	959.8	-308.4	520,895.09	751,291.22	32.4301686	-103.6528478	
11,444.0	88.44	357.99	10,449.7	1,003.8	-309.8	520,939.06	751,289.86	32.4302895	-103.6528513	
11,500.0	90.54	358.59	10,450.2	1,059.8	-311.5	520,995.03	751,288.19	32.4304434	-103.6528555	
11,534.0	91.82	358.96	10,449.5	1,093.7	-312.2	521,029.01	751,287.46	32.4305368	-103.6528572	
11,600.0	92.34	358.51	10,447.1	1,159.7	-313.6	521,094.95	751,286.01	32.4307181	-103.6528605	
11,624.0	92.53	358.35	10,446.1	1,183.7	-314.3	521,118.92	751,285.35	32.4307839	-103.6528622	
11,700.0	91.33	1.57	10,443.5	1,259.6	-314.4	521,194.87	751,285.30	32.4309927	-103.6528608	
11,713.0	91.12	2.12	10,443.3	1,272.6	-313.9	521,207.86	751,285.72	32.4310284	-103.6528591	
11,803.0	91.18	1.77	10,441.4	1,362.5	-310.9	521,297.79	751,288.77	32.4312755	-103.6528474	
11,892.0	91.82	1.16	10,439.1	1,451.5	-308.6	521,386.72	751,291.05	32.4315199	-103.6528382	
11,900.0	91.89	1.12	10,438.9	1,459.5	-308.5	521,394.72	751,291.21	32.4315419	-103.6528375	
11,982.0	92.66	0.72	10,435.6	1,541.4	-307.1	521,476.64	751,292.52	32.4317671	-103.6528315	
12,000.0	92.17	0.54	10,434.8	1,559.4	-306.9	521,494.63	751,292.72	32.4318165	-103.6528305	
12,072.0	90.20	359.84	10,433.4	1,631.3	-306.7	521,566.61	751,292.96	32.4320143	-103.6528283	
12,100.0	90.05	359.56	10,433.3	1,659.3	-306.8	521,594.61	751,292.82	32.4320913	-103.6528282	
12,161.0	89.71	358.96	10,433.4	1,720.3	-307.6	521,655.60	751,292.03	32.4322590	-103.6528294	
12,200.0	90.06	358.47	10,433.5	1,759.3	-308.5	521,694.59	751,291.15	32.4323661	-103.6528315	
12,251.0	90.51	357.82	10,433.3	1,810.3	-310.2	521,745.56	751,289.50	32.4325063	-103.6528358	
12,300.0	91.21	358.88	10,432.5	1,859.3	-311.6	521,794.54	751,288.09	32.4326409	-103.6528393	
12,340.0	91.78	359.75	10,431.5	1,899.3	-312.0	521,834.52	751,287.61	32.4327508	-103.6528401	
12,400.0	89.96	359.98	10,430.6	1,959.2	-312.2	521,894.51	751,287.48	32.4329157	-103.6528393	
12,430.0	89.05	0.10	10,430.8	1,989.2	-312.2	521,924.51	751,287.50	32.4329982	-103.6528386	
12,483.7	88.87	0.05	10,431.8	2,043.0	-312.1	521,978.22	751,287.57	32.4331458	-103.6528373	
Anderson Fed Com 501H WP1										
12,500.0	88.81	0.04	10,432.1	2,059.2	-312.1	521,994.49	751,287.58	32.4331905	-103.6528369	
12,519.0	88.75	0.02	10,432.5	2,078.2	-312.1	522,013.49	751,287.59	32.4332427	-103.6528365	
12,609.0	90.51	0.10	10,433.1	2,168.2	-312.0	522,103.49	751,287.68	32.4334901	-103.6528343	
12,698.0	92.04	359.58	10,431.1	2,257.2	-312.2	522,192.46	751,287.44	32.4337347	-103.6528333	
12,700.0	92.01	359.57	10,431.1	2,259.2	-312.2	522,194.46	751,287.42	32.4337402	-103.6528333	
12,787.0	90.68	359.31	10,429.0	2,346.2	-313.1	522,281.43	751,286.57	32.4339792	-103.6528342	
12,800.0	90.60	359.25	10,428.9	2,359.2	-313.2	522,294.43	751,286.41	32.4340150	-103.6528345	
12,877.0	90.11	358.87	10,428.4	2,436.1	-314.5	522,371.41	751,285.14	32.4342266	-103.6528370	
12,900.0	90.92	358.64	10,428.2	2,459.1	-315.0	522,394.41	751,284.65	32.4342898	-103.6528381	
12,966.0	93.23	357.99	10,425.8	2,525.1	-317.0	522,460.33	751,282.71	32.4344710	-103.6528430	
13,000.0	93.95	357.79	10,423.7	2,559.0	-318.2	522,494.24	751,281.46	32.4345643	-103.6528464	
13,055.0	95.12	357.47	10,419.3	2,613.8	-320.5	522,549.02	751,279.19	32.4347149	-103.6528526	
13,100.0	94.66	358.22	10,415.5	2,658.6	-322.2	522,593.83	751,277.51	32.4348380	-103.6528572	
13,145.0	94.20	358.96	10,412.0	2,703.4	-323.3	522,638.68	751,276.40	32.4349613	-103.6528598	
13,200.0	94.90	359.29	10,407.6	2,758.2	-324.1	522,693.50	751,275.56	32.4351120	-103.6528614	
13,234.0	95.34	359.49	10,404.6	2,792.1	-324.5	522,727.36	751,275.20	32.4352051	-103.6528619	



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Well:	Anderson Fed Com 501H	North Reference:	Grid
Wellbore:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
13,270.0	93.94	359.45	10,401.7	2,827.9	-324.8	522,763.21	751,274.87	32.4353037	-103.6528622	
NMNM 120905 Entry at 13270.0 MD										
13,300.0	92.77	359.42	10,399.9	2,857.9	-325.1	522,793.18	751,274.58	32.4353861	-103.6528625	
13,323.0	91.87	359.40	10,399.0	2,880.9	-325.3	522,816.16	751,274.34	32.4354492	-103.6528628	
13,400.0	91.60	358.57	10,396.7	2,957.9	-326.7	522,893.12	751,272.98	32.4356608	-103.6528657	
13,413.0	91.56	358.43	10,396.3	2,970.8	-327.0	522,906.11	751,272.64	32.4356965	-103.6528665	
13,502.0	92.70	357.82	10,393.0	3,059.7	-329.9	522,995.00	751,269.73	32.4359408	-103.6528741	
13,591.0	91.16	358.87	10,390.0	3,148.6	-332.5	523,083.90	751,267.16	32.4361853	-103.6528806	
13,600.0	91.21	358.71	10,389.8	3,157.6	-332.7	523,092.90	751,266.97	32.4362100	-103.6528810	
13,680.0	91.65	357.29	10,387.8	3,237.6	-335.5	523,172.82	751,264.18	32.4364297	-103.6528884	
13,700.0	91.80	356.97	10,387.2	3,257.5	-336.5	523,192.79	751,263.18	32.4364846	-103.6528912	
13,769.0	92.31	355.88	10,384.8	3,326.3	-340.8	523,261.61	751,258.88	32.4366739	-103.6529037	
13,800.0	92.58	356.76	10,383.4	3,357.3	-342.8	523,292.52	751,256.89	32.4367588	-103.6529095	
13,859.0	93.10	358.43	10,380.5	3,416.1	-345.2	523,351.39	751,254.42	32.4369207	-103.6529163	
13,900.0	93.44	359.07	10,378.2	3,457.0	-346.1	523,392.31	751,253.52	32.4370332	-103.6529184	
13,932.6	93.71	359.58	10,376.1	3,489.6	-346.5	523,424.83	751,253.14	32.4371226	-103.6529190	
Anderson Fed Com 501H WP2										
13,949.0	93.85	359.84	10,375.1	3,505.9	-346.6	523,441.21	751,253.06	32.4371676	-103.6529189	
14,000.0	92.69	1.10	10,372.2	3,556.9	-346.2	523,492.13	751,253.48	32.4373076	-103.6529165	
14,038.0	91.82	2.04	10,370.7	3,594.8	-345.1	523,530.08	751,254.52	32.4374119	-103.6529123	
14,100.0	91.58	1.07	10,368.8	3,656.8	-343.5	523,592.03	751,256.20	32.4375821	-103.6529056	
14,128.0	91.47	0.63	10,368.1	3,684.8	-343.0	523,620.02	751,256.62	32.4376590	-103.6529037	
14,200.0	92.60	0.28	10,365.5	3,756.7	-342.5	523,691.97	751,257.19	32.4378568	-103.6529003	
14,218.0	92.88	0.19	10,364.7	3,774.7	-342.4	523,709.95	751,257.26	32.4379062	-103.6528997	
14,307.0	90.99	1.25	10,361.7	3,863.6	-341.3	523,798.89	751,258.38	32.4381506	-103.6528943	
14,397.0	89.98	1.42	10,360.9	3,953.6	-339.2	523,888.86	751,260.47	32.4383979	-103.6528856	
14,400.0	89.97	1.40	10,360.9	3,956.6	-339.1	523,891.86	751,260.55	32.4384061	-103.6528853	
14,486.0	89.67	0.81	10,361.2	4,042.6	-337.5	523,977.84	751,262.21	32.4386424	-103.6528782	
14,500.0	89.57	0.74	10,361.3	4,056.6	-337.3	523,991.84	751,262.40	32.4386809	-103.6528773	
14,576.0	89.05	0.37	10,362.2	4,132.6	-336.5	524,067.83	751,263.13	32.4388898	-103.6528733	
14,600.0	88.94	0.39	10,362.6	4,156.6	-336.4	524,091.82	751,263.29	32.4389557	-103.6528723	
14,665.0	88.66	0.45	10,363.9	4,221.5	-335.9	524,156.81	751,263.77	32.4391343	-103.6528694	
14,700.0	88.80	0.28	10,364.7	4,256.5	-335.7	524,191.80	751,263.99	32.4392305	-103.6528680	
14,755.0	89.01	0.02	10,365.8	4,311.5	-335.5	524,246.79	751,264.14	32.4393816	-103.6528663	
14,800.0	88.79	359.66	10,366.6	4,356.5	-335.6	524,291.78	751,264.01	32.4395053	-103.6528658	
14,844.0	88.57	359.31	10,367.7	4,400.5	-336.0	524,335.77	751,263.62	32.4396262	-103.6528662	
14,900.0	88.96	359.09	10,368.9	4,456.5	-336.8	524,391.75	751,262.84	32.4397801	-103.6528676	
14,933.0	89.19	358.96	10,369.4	4,489.5	-337.4	524,424.74	751,262.28	32.4398708	-103.6528687	
15,000.0	91.68	358.70	10,368.9	4,556.5	-338.8	524,491.72	751,260.91	32.4400549	-103.6528718	
15,023.0	92.53	358.61	10,368.0	4,579.4	-339.3	524,514.69	751,260.37	32.4401181	-103.6528730	
15,100.0	90.40	359.90	10,366.1	4,656.4	-340.3	524,591.66	751,259.37	32.4403296	-103.6528747	
15,112.0	90.07	0.10	10,366.0	4,668.4	-340.3	524,603.66	751,259.37	32.4403626	-103.6528744	
15,201.0	90.77	359.84	10,365.4	4,757.4	-340.3	524,692.65	751,259.32	32.4406072	-103.6528728	
15,290.0	88.31	0.10	10,366.1	4,846.4	-340.4	524,781.64	751,259.27	32.4408518	-103.6528711	
15,300.0	88.36	0.03	10,366.4	4,856.4	-340.4	524,791.64	751,259.28	32.4408793	-103.6528708	
15,380.0	88.79	359.49	10,368.4	4,936.3	-340.7	524,871.61	751,258.95	32.4410991	-103.6528703	
15,400.0	88.82	359.27	10,368.8	4,956.3	-340.9	524,891.61	751,258.74	32.4411541	-103.6528705	
15,403.6	88.82	359.23	10,368.9	4,959.9	-341.0	524,895.17	751,258.69	32.4411639	-103.6528706	
Anderson Fed Com 501H WP3										
15,469.0	88.92	358.52	10,370.1	5,025.3	-342.3	524,960.58	751,257.41	32.4413437	-103.6528734	
15,500.0	89.18	358.06	10,370.7	5,056.3	-343.2	524,991.56	751,256.48	32.4414289	-103.6528758	
15,558.0	89.67	357.20	10,371.2	5,114.2	-345.6	525,049.51	751,254.08	32.4415882	-103.6528824	
15,600.0	89.84	356.99	10,371.4	5,156.2	-347.7	525,091.46	751,251.96	32.4417035	-103.6528884	
15,647.0	90.02	356.76	10,371.5	5,203.1	-350.3	525,138.39	751,249.39	32.4418326	-103.6528957	
15,700.0	89.76	358.44	10,371.6	5,256.1	-352.5	525,191.34	751,247.17	32.4419781	-103.6529018	



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Well:	Anderson Fed Com 501H	North Reference:	Grid
Wellbore:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,736.0	89.58	359.58	10,371.8	5,292.1	-353.1	525,227.33	751,246.55	32.4420771	-103.6529031
15,800.0	89.67	358.58	10,372.2	5,356.1	-354.1	525,291.32	751,245.52	32.4422530	-103.6529051
15,826.0	89.71	358.17	10,372.3	5,382.0	-354.9	525,317.31	751,244.79	32.4423244	-103.6529070
15,900.0	91.36	0.58	10,371.7	5,456.0	-355.7	525,391.29	751,243.98	32.4425278	-103.6529081
15,912.0	91.62	0.97	10,371.3	5,468.0	-355.5	525,403.26	751,244.14	32.4425607	-103.6529073
NMM 120905 Exit at 15912.0 MD									
15,915.0	91.69	1.07	10,371.3	5,471.0	-355.5	525,406.29	751,244.19	32.4425690	-103.6529070
16,004.0	90.37	0.81	10,369.7	5,560.0	-354.0	525,495.26	751,245.65	32.4428135	-103.6529005
16,094.0	90.37	0.72	10,369.1	5,650.0	-352.8	525,585.25	751,246.86	32.4430609	-103.6528947
16,100.0	90.44	0.71	10,369.0	5,656.0	-352.7	525,591.25	751,246.93	32.4430773	-103.6528944
16,183.0	91.34	0.63	10,367.8	5,739.0	-351.8	525,674.23	751,247.90	32.4433054	-103.6528895
16,200.0	91.27	0.75	10,367.4	5,756.0	-351.6	525,691.23	751,248.11	32.4433521	-103.6528885
16,273.0	90.95	1.25	10,366.0	5,828.9	-350.3	525,764.20	751,249.38	32.4435527	-103.6528828
16,300.0	91.62	1.20	10,365.3	5,855.9	-349.7	525,791.19	751,249.96	32.4436269	-103.6528804
16,363.0	93.19	1.07	10,362.7	5,918.9	-348.5	525,854.12	751,251.20	32.4437998	-103.6528751
16,400.0	91.20	2.38	10,361.3	5,955.8	-347.3	525,891.07	751,252.32	32.4439014	-103.6528707
16,452.0	88.40	4.23	10,361.5	6,007.7	-344.3	525,942.98	751,255.32	32.4440440	-103.6528599
16,500.0	88.07	3.86	10,362.9	6,055.6	-341.0	525,990.83	751,258.70	32.4441755	-103.6528480
16,542.0	87.78	3.53	10,364.5	6,097.5	-338.3	526,032.72	751,261.40	32.4442905	-103.6528383
16,600.0	88.93	3.42	10,366.1	6,155.3	-334.7	526,090.59	751,264.92	32.4444495	-103.6528258
16,631.0	89.54	3.36	10,366.5	6,186.3	-332.9	526,121.53	751,266.75	32.4445345	-103.6528192
16,700.0	88.43	1.94	10,367.8	6,255.2	-329.7	526,190.44	751,269.94	32.4447239	-103.6528074
16,721.0	88.09	1.51	10,368.4	6,276.2	-329.1	526,211.42	751,270.57	32.4447816	-103.6528049
16,800.0	88.63	1.74	10,370.7	6,355.1	-326.8	526,290.36	751,272.81	32.4449985	-103.6527960
16,811.0	88.70	1.77	10,370.9	6,366.1	-326.5	526,301.35	751,273.15	32.4450287	-103.6527947
16,900.0	89.19	358.79	10,372.6	6,455.1	-326.1	526,390.32	751,273.58	32.4452732	-103.6527915
16,990.0	89.45	357.64	10,373.6	6,545.0	-328.9	526,480.27	751,270.78	32.4455205	-103.6527987
17,000.0	89.48	357.53	10,373.7	6,555.0	-329.3	526,490.26	751,270.36	32.4455480	-103.6527999
17,079.0	89.71	356.68	10,374.3	6,633.9	-333.3	526,569.16	751,266.37	32.4457649	-103.6528112
17,100.0	89.97	357.09	10,374.3	6,654.9	-334.4	526,590.13	751,265.23	32.4458226	-103.6528144
17,169.0	90.81	358.43	10,373.9	6,723.8	-337.1	526,659.07	751,262.53	32.4460121	-103.6528217
17,200.0	91.16	358.92	10,373.3	6,754.8	-337.8	526,690.06	751,261.81	32.4460973	-103.6528234
17,258.0	91.82	359.84	10,371.8	6,812.8	-338.5	526,748.04	751,261.19	32.4462567	-103.6528243
17,300.0	92.30	359.72	10,370.3	6,854.7	-332.6	526,790.01	751,261.02	32.4463720	-103.6528239
17,348.0	92.84	359.58	10,368.2	6,902.7	-338.9	526,837.96	751,260.73	32.4465038	-103.6528239
17,400.0	90.88	359.07	10,366.5	6,954.7	-339.5	526,889.93	751,260.12	32.4466467	-103.6528248
17,437.0	89.49	358.70	10,366.4	6,991.7	-340.3	526,926.92	751,259.39	32.4467484	-103.6528264
17,500.0	89.24	359.06	10,367.1	7,054.6	-341.5	526,989.90	751,258.17	32.4469215	-103.6528291
17,527.0	89.14	359.22	10,367.4	7,081.6	-341.9	527,016.90	751,257.76	32.4469957	-103.6528298
17,600.0	90.19	358.93	10,367.9	7,154.6	-343.1	527,089.88	751,256.58	32.4471964	-103.6528321
17,616.0	90.42	358.87	10,367.8	7,170.6	-343.4	527,105.88	751,256.28	32.4472403	-103.6528328
17,705.0	91.60	358.43	10,366.2	7,259.6	-345.5	527,194.84	751,254.18	32.4474849	-103.6528377
17,795.0	92.18	357.82	10,363.3	7,349.5	-348.4	527,284.74	751,251.24	32.4477320	-103.6528454
17,800.0	92.15	357.75	10,363.1	7,354.5	-348.6	527,289.73	751,251.05	32.4477458	-103.6528459
17,884.0	91.69	356.50	10,360.2	7,438.3	-352.8	527,373.58	751,246.83	32.4479763	-103.6528579
17,900.0	91.60	356.22	10,359.8	7,454.3	-353.8	527,389.54	751,245.82	32.4480202	-103.6528608
17,974.0	91.21	354.92	10,358.0	7,528.0	-359.6	527,463.30	751,240.10	32.4482230	-103.6528778
18,000.0	91.20	355.61	10,357.4	7,553.9	-361.7	527,489.20	751,237.96	32.4482943	-103.6528843
18,063.0	91.16	357.29	10,356.1	7,616.8	-365.6	527,552.06	751,234.06	32.4484671	-103.6528956
18,100.0	91.05	357.95	10,355.4	7,653.8	-367.1	527,589.03	751,232.52	32.4485687	-103.6528998
18,152.0	90.90	358.87	10,354.5	7,705.7	-368.6	527,641.00	751,231.08	32.4487116	-103.6529034
18,200.0	89.99	358.59	10,354.2	7,753.7	-369.6	527,688.98	751,230.01	32.4488435	-103.6529059
18,242.0	89.19	358.35	10,354.5	7,795.7	-370.8	527,730.97	751,228.89	32.4489589	-103.6529086
18,300.0	89.96	358.06	10,354.9	7,853.7	-372.6	527,788.94	751,227.08	32.4491183	-103.6529133
18,331.0	90.37	357.91	10,354.8	7,884.7	-373.7	527,819.92	751,225.99	32.4492035	-103.6529162



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Well:	Anderson Fed Com 501H	North Reference:	Grid
Wellbore:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
18,396.0	91.21	357.73	10,353.9	7,949.6	-376.1	527,884.86	751,223.52	32.4493820	-103.6529229	
18,400.0	91.21	357.73	10,353.8	7,953.6	-376.3	527,888.86	751,223.36	32.4493930	-103.6529233	
18,445.9	91.21	357.73	10,352.8	7,999.5	-378.1	527,934.73	751,221.54	32.4495191	-103.6529283	
Anderson Fed Com 501H BHL										
18,452.0	91.21	357.73	10,352.7	8,005.5	-378.4	527,940.81	751,221.30	32.4495358	-103.6529289	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
10,628	10,439	191	-286	NMNM 10669 6 Exit at 10628.0 MD	
13,270	10,402	2828	-325	NMNM 120905 Entry at 13270.0 MD	
15,912	10,371	5468	-356	NMNM 120905 Exit at 15912.0 MD	

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 340442

ACKNOWLEDGMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 340442
	Action Type: [C-105] Well (Re)Completion (C-105)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
<input type="checkbox"/>	I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.
<input type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals were added to the fluid used in the completion or recompletion of this well.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 340442

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 340442
	Action Type: [C-105] Well (Re)Completion (C-105)

CONDITIONS

Created By	Condition	Condition Date
raul.robles	None	5/4/2026