

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

OCT 10 2012

1a. Type of Work DRILL	5. Lease Number SF-077282 Unit Reporting Number Farmington Field Office Bureau of Land Management
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name RCVD NOV 2 '12 OIL CONS. DIV.
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Grenier A 9. Well Number 3N DIST. 3
4. Location of Well Surface: Unit A(NENE), 471' FNL & 742' FEL BHL : Unit A(NENE), 710' FNL & 710' FEL Surface: Latitude: 36.77461° N (NAD83) Longitude: 107.86544° W BHL : Latitude: 36.77396° N (NAD83) Longitude: 107.86534° W	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 34, T30N, R10W API # 30-045-35421
14. Distance in Miles from Nearest Town 11 miles from Aztec	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 471'	
16. Acres in Lease 793.620	17. Acres Assigned to Well 318.34 Acres - N/2
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 601' from Grenier A 6/FC	
19. Proposed Depth 7080' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6019' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: Marie Jaramillo (Staff Regulatory Tech)	10/18/12 Date

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

A gas recovery unit may or may not be used on this location.

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes 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 presentations as to any matter within its jurisdiction.

Example Master Plan Type 3

Bond Numbers NMB-000015 and NMB-000089

for Directional Survey
and "As Drilled" plat

NOV 08 2012 ca

NMOCD
PV

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised July 10, 2010

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

Submit one copy to appropriate
District Office

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

OCT 19 2012

☐ AMENDED REPORT

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Farmington Field Office
Bureau of Land Management

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35421	² Pool Code 72319 / 71599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 18531	⁵ Property Name GRENIER A	⁶ Well Number 3N
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6019'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	34	30N	10W	1	471'	NORTH	742'	EAST	SAN JUAN

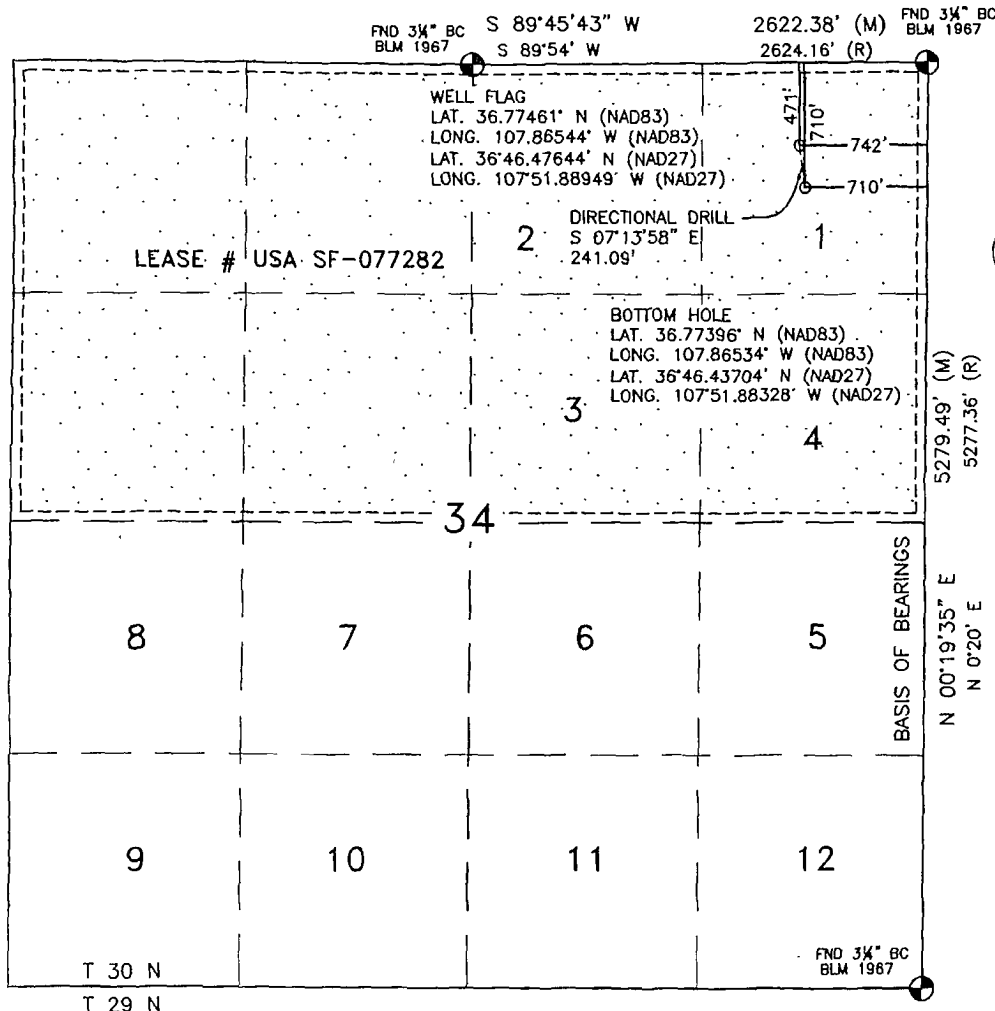
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	34	30N	10W	1	710'	NORTH	710'	EAST	SAN JUAN

¹² Dedicated Acres 318.34 ACRES - N/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

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¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Dollie L. Busse 3/14/11
Signature Date

Dollie L. Busse

Printed Name

E-mail Address

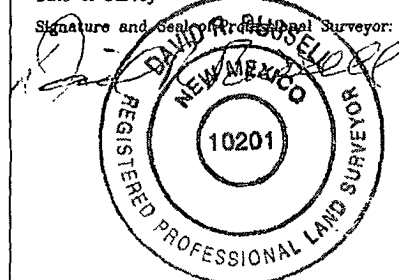
¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEBRUARY 28, 2011

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL

Certificate Number

10201

BURLINGTON RESOURCES OIL & GAS COMPANY LP

WELL FLAG

LATITUDE: 36.77461° N

LONGITUDE: 107.86544° W

DATUM: NAD 83

E.R.A.

LATITUDE: 36°45'47.7" N

LONGITUDE: 107°52'18.4" W

DATUM: NAD 83

GRENIER A #3N

471' FNL & 742' FEL

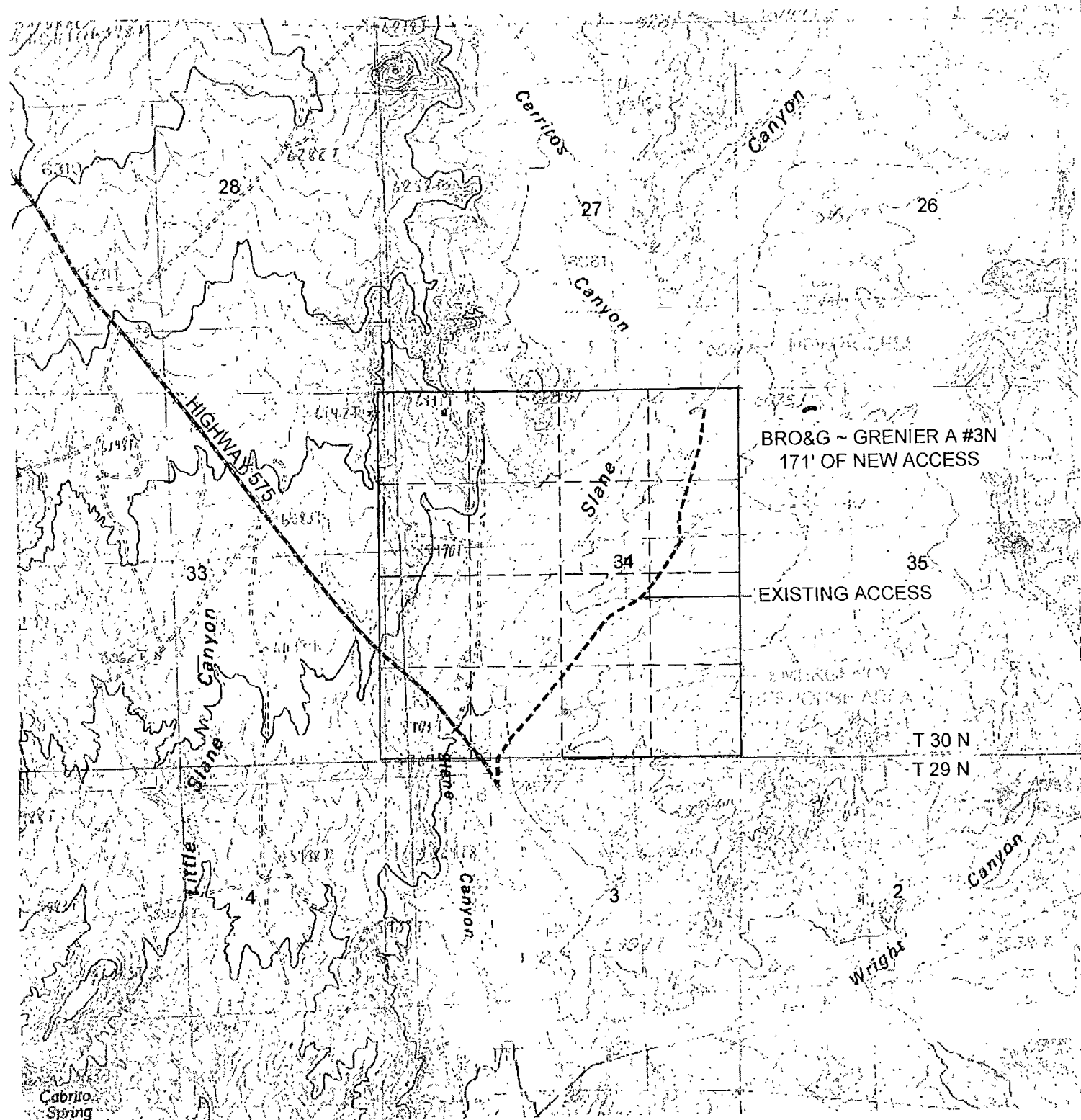
LOCATED IN THE NE/4 NE/4 OF SECTION 34,

T30N, R10W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 6019', NAVD 88

171' OF NEW ACCESS ACROSS BLM LANDS



J.S.G.S. QUAD: TURLEY
SCALE: 1" = 2000' (1:24,000)
JOB No.: COPC413_REV1
DATE: 03/03/11

NEW OR RECONSTRUCTED ROADS MUST MEET
SMA DESIGN STANDARDS
INSTALL CULVERTS AS NEEDED



Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-8637

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

GRENIER A 3N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0126				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 730		State: NM	County: SAN JUAN		API #:
Geologist:	Phone:		Geophysicist:		Phone:		
Geoscientist:	Phone:		Prod. Engineer:		Phone:		
Res. Engineer:	Phone:		Proj. Field Lead:		Phone:		
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface				Datum Code: NAD 27		Directional	
Latitude: 36.774605	Longitude: -107.864821	X:	Y:	Section: 34	Range: 010W		
Footage X: 742 FEL	Footage Y: 471 FNL	Elevation: 6019	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole				Datum Code: NAD 27		Directional	
Latitude: 36.773955	Longitude: -107.864721	X:	Y:	Section: 34	Range: 010W		
Footage X: 710 FEL	Footage Y: 710 FNL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6034 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
NACIMIENTO	15	6019	15	☐			
Surface Casing	200	5834	200	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.
OJO ALAMO	1243	4791	1244	☐			
KIRTLAND	1395	4639	1396	☐			
FRUITLAND	1959	4075	1961	☐			Possible Gas
PICTURED CLIFFS	2588	3446	2591	☐	380		
LEWIS	2692	3342	2695	☐			
HUERFANITO BENTONITE	3284	2750	3288	☐			
CHACRA	3534	2500	3538	☐			
UPPER CLIFF HOUSE	4081	1953	4086	☐			Gas
MASSIVE CLIFF HOUSE	4175	1859	4180	☐	492		Gas
MENEFEE	4284	1750	4290	☐			
Intermediate Casing	4434	1600	4432	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1005 cuft. Circulate cement to surface.
POINT LOOKOUT	4813	1221	4820	☐			
MANCOS	5189	845	5196	☐			
UPPER GALLUP	6053	-19	6060	☐			
GREENHORN	6791	-757	6798	☐			
GRANEROS	6846	-812	6853	☐			
TWO WELLS	6902	-868	6909	☐	2177		Gas
PAGUATE	6985	-951	6992	☐			Gas
CUBERO	7007	-973	7014	☐			Gas - Bottom Perf ~-1026 base on offset wells

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

GRENIER A 3N

DEVELOPMENT

total Depth	7080	-1046	7087	☐
ENCINAL	7099	-1065	7106	☐
BURRO CANYON	7166	-1132	7173	☐
MORRISON	7167	-1133	7174	☐

6-1/4" hole, 4-1/2" 11.6 ppf, L-80 LTC/BTC casing.
Cement w/ 351 cuft. Circulate cement a minimum of 100'
inside the previous casing string

Reference Wells:

Reference Type	Well Name	Comments
Production	RIDDLE B 10E	
Production	GRENIER A 3M	

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

GR CBL.
Mud log ~100' above Gallup down to TD.
Mudlogger will call TD.
Bottom perf ~20' above TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning	Local Co-ordinate Reference: Well Grenier A 3N	
Company: ConocoPhillips SJBU	TVD Reference: WELL @ 6034.0ft (Original Well Elev)	
Project: San Juan Basin - New Mexico West Wells	MD Reference: WELL @ 6034.0ft (Original Well Elev)	
Site: Other Named Wells	North Reference: True	
Well: Grenier A 3N	Survey Calculation Method: Minimum Curvature	
Wellbore: Wellbore #1		
Design: APD Plan		

Project: San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"		
Map System: US State Plane 1927 (Exact solution)	System Datum: Ground Level	
Geo Datum: NAD 1927 (NADCON CONUS)		
Map Zone: New Mexico West 3003	Using geodetic scale factor	

Site: Other Named Wells		
Site Position: Northing: 2,063,826.04 ft	Latitude: 36° 40' 18.848 N	
From: Lat/Long Easting: 504,691.02 ft	Longitude: 107° 49' 2.415 W	
Position Uncertainty: 15.0 ft	Slot Radius: 6-1/8"	Grid Convergence: 0.01 °

Well: Grenier A 3N		
Well Position: +N/-S 0.0 ft	Northing: 2,101,216.25 ft	Latitude: 36° 46' 28.586 N
+E/-W 0.0 ft	Easting: 490,776.93 ft	Longitude: 107° 51' 53.369 W
Position Uncertainty: 0.0 ft	Wellhead Elevation: ft	Ground Level: 6,019.0 ft

Wellbore: Wellbore #1		
Magnetics: Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)		
BGGM2011 7/13/2012 9.81 63.44 50,596		

Design: APD Plan		
Audit Notes:		
Version: Phase: PROTOTYPE Tie On Depth: 0.0		
Vertical Section: Depth From (TVD) (ft) +N/-S (ft) +E/-W (ft) Direction (°)		
0.0 0.0 0.0 172.77		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,050.0	0.00	0.00	1,050.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,927.9	17.56	172.77	1,914.2	-132.4	16.8	2.00	2.00	0.00	172.77	
1,989.4	17.56	172.77	1,972.8	-150.8	19.1	0.00	0.00	0.00	0.00	
2,574.7	0.00	0.00	2,549.0	-239.1	30.3	3.00	-3.00	0.00	180.00	
4,459.7	0.00	0.00	4,434.0	-239.1	30.3	0.00	0.00	0.00	0.00	Grenier A 3N ICP
7,105.7	0.00	0.00	7,080.0	-239.1	30.3	0.00	0.00	0.00	0.00	Grenier A 3N PCP

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJBU
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Grenier A 3N
 Wellbore: Wellbore #1
 Design: APD Plan

Local Co-ordinate Reference: Well Grenier A 3N
 TVD Reference: WELL @ 6034.0ft (Original Well Elev)
 MD Reference: WELL @ 6034.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
SCP									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,050.0	0.00	0.00	1,050.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	1.00	172.77	1,100.0	-0.4	0.1	0.4	2.00	2.00	0.00
1,200.0	3.00	172.77	1,199.9	-3.9	0.5	3.9	2.00	2.00	0.00
1,243.1	3.86	172.77	1,243.0	-6.5	0.8	6.5	2.00	2.00	0.00
Ojo Alamo									
1,300.0	5.00	172.77	1,299.7	-10.8	1.4	10.9	2.00	2.00	0.00
1,395.8	6.92	172.77	1,395.0	-20.7	2.6	20.8	2.00	2.00	0.00
Kirtland									
1,400.0	7.00	172.77	1,399.1	-21.2	2.7	21.4	2.00	2.00	0.00
1,500.0	9.00	172.77	1,498.2	-35.0	4.4	35.3	2.00	2.00	0.00
1,600.0	11.00	172.77	1,596.6	-52.2	6.6	52.6	2.00	2.00	0.00
1,700.0	13.00	172.77	1,694.4	-72.8	9.2	73.4	2.00	2.00	0.00
1,800.0	15.00	172.77	1,791.5	-96.8	12.3	97.6	2.00	2.00	0.00
1,900.0	17.00	172.77	1,887.6	-124.2	15.7	125.2	2.00	2.00	0.00
1,927.9	17.56	172.77	1,914.2	-132.4	16.8	133.5	2.00	2.00	0.00
1,974.9	17.56	172.77	1,959.0	-146.5	18.6	147.6	0.00	0.00	0.00
Fruitland									
1,989.4	17.56	172.77	1,972.8	-150.8	19.1	152.0	0.00	0.00	0.00
2,000.0	17.24	172.77	1,983.0	-154.0	19.5	155.2	3.00	-3.00	0.00
2,100.0	14.24	172.77	2,079.2	-180.9	22.9	182.3	3.00	-3.00	0.00
2,200.0	11.24	172.77	2,176.7	-202.7	25.7	204.4	3.00	-3.00	0.00
2,300.0	8.24	172.77	2,275.3	-219.5	27.8	221.3	3.00	-3.00	0.00
2,400.0	5.24	172.77	2,374.6	-231.2	29.3	233.0	3.00	-3.00	0.00
2,500.0	2.24	172.77	2,474.4	-237.6	30.1	239.5	3.00	-3.00	0.00
2,574.7	0.00	0.00	2,549.0	-239.1	30.3	241.0	3.00	-3.00	0.00
2,600.0	0.00	0.00	2,574.3	-239.1	30.3	241.0	0.00	0.00	0.00
2,613.7	0.00	0.00	2,588.0	-239.1	30.3	241.0	0.00	0.00	0.00
Picture Cliffs									
2,700.0	0.00	0.00	2,674.3	-239.1	30.3	241.0	0.00	0.00	0.00
2,717.7	0.00	0.00	2,692.0	-239.1	30.3	241.0	0.00	0.00	0.00
Lewis									
2,800.0	0.00	0.00	2,774.3	-239.1	30.3	241.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,874.3	-239.1	30.3	241.0	0.00	0.00	0.00
3,000.0	0.00	0.00	2,974.3	-239.1	30.3	241.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,074.3	-239.1	30.3	241.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,174.3	-239.1	30.3	241.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,274.3	-239.1	30.3	241.0	0.00	0.00	0.00
3,309.7	0.00	0.00	3,284.0	-239.1	30.3	241.0	0.00	0.00	0.00
Huerfano Benteite									
3,400.0	0.00	0.00	3,374.3	-239.1	30.3	241.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,474.3	-239.1	30.3	241.0	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Grenier A 3N
 Wellbore: Wellbore #1
 Design: APD Plan

Local Co-ordinate Reference: Well Grenier A 3N
 TVD Reference: WELL @ 6034.0ft (Original Well Elev)
 MD Reference: WELL @ 6034.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,559.7	0.00	0.00	X 3,534.0	-239.1	30.3	241.0	0.00	0.00	0.00
Chacra									
3,600.0	0.00	0.00	3,574.3	-239.1	30.3	241.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,674.3	-239.1	30.3	241.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,774.3	-239.1	30.3	241.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,874.3	-239.1	30.3	241.0	0.00	0.00	0.00
4,000.0	0.00	0.00	3,974.3	-239.1	30.3	241.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,074.3	-239.1	30.3	241.0	0.00	0.00	0.00
4,106.7	0.00	0.00	4,081.0	-239.1	30.3	241.0	0.00	0.00	0.00
Upper Cliff House									
4,200.0	0.00	0.00	4,174.3	-239.1	30.3	241.0	0.00	0.00	0.00
4,200.7	0.00	0.00	4,175.0	-239.1	30.3	241.0	0.00	0.00	0.00
Massive Cliff House									
4,300.0	0.00	0.00	4,274.3	-239.1	30.3	241.0	0.00	0.00	0.00
4,309.7	0.00	0.00	4,284.0	-239.1	30.3	241.0	0.00	0.00	0.00
Menefee									
4,400.0	0.00	0.00	4,374.3	-239.1	30.3	241.0	0.00	0.00	0.00
4,434.0	0.00	0.00	4,408.3	-239.1	30.3	241.0	0.00	0.00	0.00
ICP									
4,459.7	0.00	0.00	4,434.0	-239.1	30.3	241.0	0.00	0.00	0.00
Grenier A 3N ICP									
4,500.0	0.00	0.00	4,474.3	-239.1	30.3	241.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,574.3	-239.1	30.3	241.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,674.3	-239.1	30.3	241.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,774.3	-239.1	30.3	241.0	0.00	0.00	0.00
4,838.7	0.00	0.00	4,813.0	-239.1	30.3	241.0	0.00	0.00	0.00
Point Lookout									
4,900.0	0.00	0.00	4,874.3	-239.1	30.3	241.0	0.00	0.00	0.00
5,000.0	0.00	0.00	4,974.3	-239.1	30.3	241.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,074.3	-239.1	30.3	241.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,174.3	-239.1	30.3	241.0	0.00	0.00	0.00
5,214.7	0.00	0.00	5,189.0	-239.1	30.3	241.0	0.00	0.00	0.00
Mancos									
5,300.0	0.00	0.00	5,274.3	-239.1	30.3	241.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,374.3	-239.1	30.3	241.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,474.3	-239.1	30.3	241.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,574.3	-239.1	30.3	241.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,674.3	-239.1	30.3	241.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,774.3	-239.1	30.3	241.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,874.3	-239.1	30.3	241.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,974.3	-239.1	30.3	241.0	0.00	0.00	0.00
6,078.7	0.00	0.00	6,053.0	-239.1	30.3	241.0	0.00	0.00	0.00
Upper Gallup									
6,100.0	0.00	0.00	6,074.3	-239.1	30.3	241.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,174.3	-239.1	30.3	241.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,274.3	-239.1	30.3	241.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,374.3	-239.1	30.3	241.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,474.3	-239.1	30.3	241.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,574.3	-239.1	30.3	241.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,674.3	-239.1	30.3	241.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,774.3	-239.1	30.3	241.0	0.00	0.00	0.00
6,816.7	0.00	0.00	6,791.0	-239.1	30.3	241.0	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Grenier A 3N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6034 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6034 0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Grenier A 3N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Greenhorn									
6,871.7	0.00	0.00	6,846.0	-239.1	30.3	241.0	0.00	0.00	0.00
Graneros									
6,900.0	0.00	0.00	6,874.3	-239.1	30.3	241.0	0.00	0.00	0.00
6,927.7	0.00	0.00	6,902.0	-239.1	30.3	241.0	0.00	0.00	0.00
Two Well									
7,000.0	0.00	0.00	6,974.3	-239.1	30.3	241.0	0.00	0.00	0.00
7,010.7	0.00	0.00	6,985.0	-239.1	30.3	241.0	0.00	0.00	0.00
Paguete									
7,032.7	0.00	0.00	7,007.0	-239.1	30.3	241.0	0.00	0.00	0.00
Cubero									
7,100.0	0.00	0.00	7,074.3	-239.1	30.3	241.0	0.00	0.00	0.00
7,105.7	0.00	0.00	7,080.0	-239.1	30.3	241.0	0.00	0.00	0.00
PCP - Grenier A 3N PCP									

Targets

Target Name	- hit/miss target	- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Grenier A 3N ICP	- plan hits target center	- Point	0.00	0.00	4,434.0	-239.1	30.3	2,100,977.18	490,807.17	36° 46' 26.222 N	107° 51' 52.997 W
Grenier A 3N PCP	- plan hits target center	- Point	0.00	0.00	7,080.0	-239.1	30.3	2,100,977.16	490,807.15	36° 46' 26.222 N	107° 51' 52.997 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
200.0	200.0	SCP	9-5/8	12-1/4
4,434.0	4,408.3	ICP	7	8-3/4
7,105.7	7,080.0	PCP	4-1/2	6-1/4

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Grenier A 3N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6034.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6034 0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Grenier A 3N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Plan		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,200.7	4,175.0	Massive Cliff House		0.00	
7,010.7	6,985.0	Paguate		0.00	
2,717.7	2,692.0	Lewis		0.00	
3,559.7	3,534.0	Chacra		0.00	
1,395.8	1,395.0	Kirtland		0.00	
6,078.7	6,053.0	Upper Gallup		0.00	
1,974.9	1,959.0	Fruitland		0.00	
2,613.7	2,588.0	Picture Cliffs		0.00	
4,838.7	4,813.0	Point Lookout		0.00	
4,309.7	4,284.0	Menefee		0.00	
1,243.1	1,243.0	Ojo Alamo		0.00	
3,309.7	3,284.0	Huerfanito Bentenite		0.00	
6,927.7	6,902.0	Two Well		0.00	
6,871.7	6,846.0	Graneros		0.00	
4,106.7	4,081.0	Upper Cliff House		0.00	
6,816.7	6,791.0	Greenhorn		0.00	
5,214.7	5,189.0	Mancos		0.00	
7,032.7	7,007.0	Cubero		0.00	

REFERENCE INFORMATION

Project: San Juan Basin - New Mexico West

Site: Other Named Wells

Well: Grenier A 3N

Well @ 6034.0ft (Original Well Elev)

Ground Elevation 6019.0

Reference Lat: 36° 46' 28.586 N

Reference Long: 107° 51' 53.369 W

Wellbore: Wellbore #1

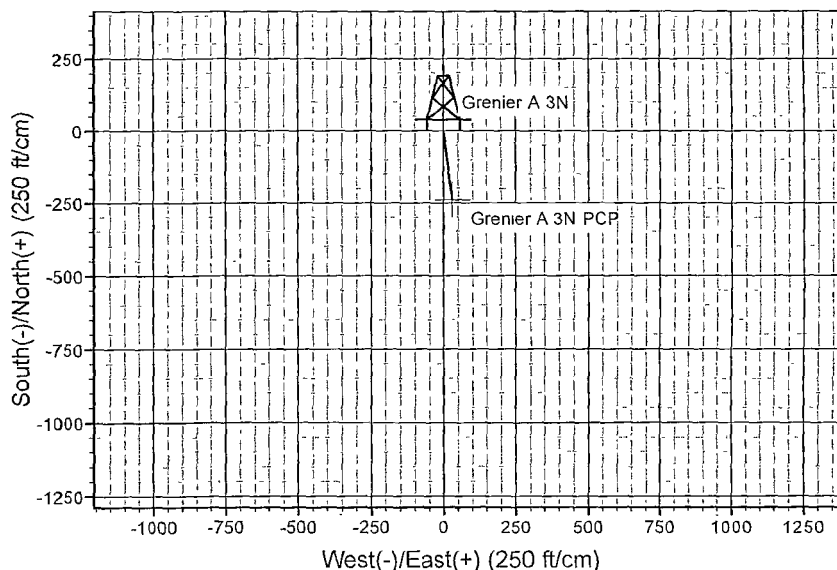
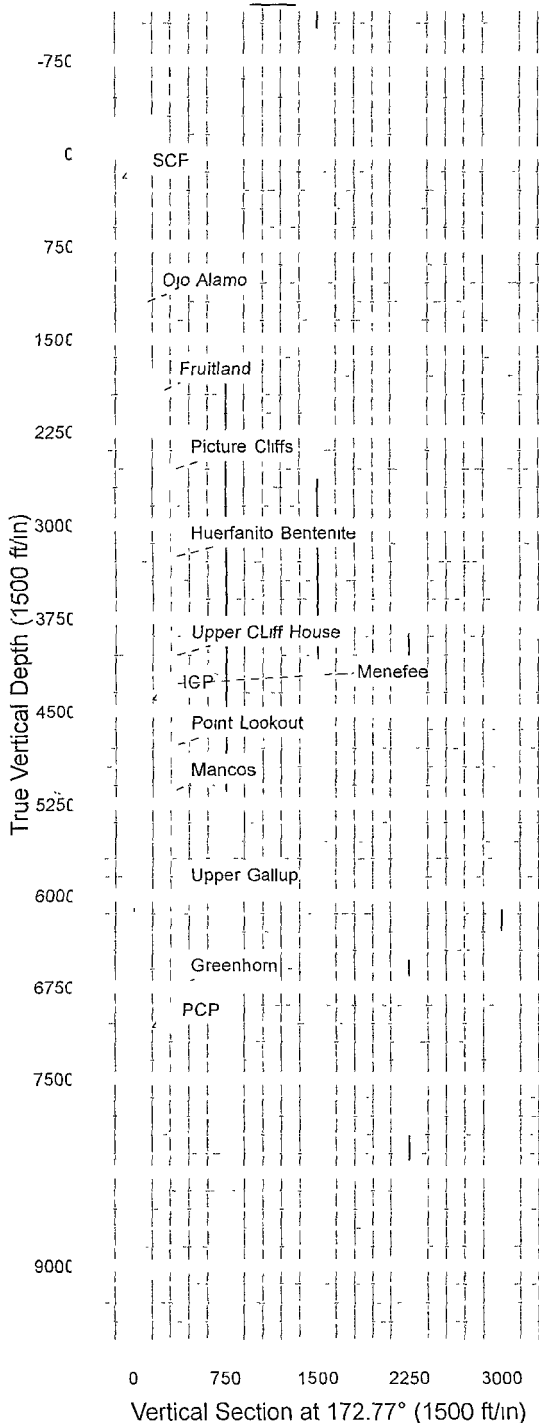
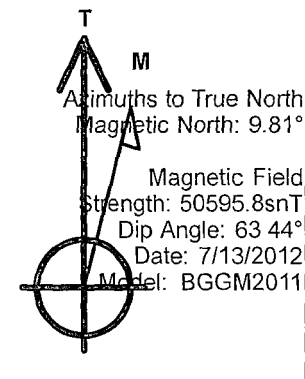
Design: APD Plan

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1050.0	0.00	0.00	1050.0	0.0	0.0	0.00	0.00	0.0	
3	1927.9	17.56	172.77	1914.2	-132.4	16.8	2.00	172.77	133.5	
4	1989.4	17.56	172.77	1972.8	-150.8	19.1	0.00	0.00	152.0	
5	2574.7	0.00	0.00	2549.0	-239.1	30.3	3.00	180.00	241.0	
6	4459.7	0.00	0.00	4434.0	-239.1	30.3	0.00	0.00	241.0	Grenier A 3N ICP
7	7105.7	0.00	0.00	7080.0	-239.1	30.3	0.00	0.00	241.0	Grenier A 3N PCP

FORMATION TOP DETAILS

DPATH	MDPATH	Formation
1243.0	1243.1	Ojo Alamo
1395.0	1395.8	Kirtland
1959.0	1974.9	Fruitland
2588.0	2613.7	Picture Cliffs
2692.0	2717.7	Lewis
3284.0	3309.7	Huerfano Bente
3534.0	3559.7	Chacra
4081.0	4106.7	Upper Cliff House
4175.0	4200.7	Massive Cliff House
4284.0	4309.7	Menefee
4813.0	4838.7	Point Lookout
5189.0	5214.7	Mancos
6053.0	6078.7	Upper Gallup
6791.0	6816.7	Greenhorn
6846.0	6871.7	Graneros
6902.0	6927.7	Two Well
6985.0	7010.7	Paguate
7007.0	7032.7	Cubero



BURLINGTON RESOURCES OIL & GAS COMPANY LP

GRENIER A #3N

471' FNL & 742' FEL

LOCATED IN THE NE/4 NE/4 OF SECTION 34,

T30N, R10W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 6019', NAVD 88

FINISHED PAD ELEVATION: 6018.6', NAVD 88

DIRECTIONS

- 1) FROM POST OFFICE IN AZTEC, TRAVEL NORTH ON HIGHWAY 550 FOR 1.0 MILE.
- 2) TURN RIGHT AND FOLLOW HIGHWAY 550 1.0 MILE TO HIGHWAY 173.
- 3) TURN RIGHT ON TO HIGHWAY 173 AND TRAVEL 1.0 MILES.
- 4) TURN LEFT AND CONTINUE ON HIGHWAY 173, 3.0 MILES TO HIGHWAY 575.
- 5) TURN RIGHT ON TO HIGHWAY 575 AND TRAVEL 4.1 MILES.
- 6) TURN LEFT AND TRAVEL 0.8 MILES TO A "Y" INTERSECTION.
- 7) STAY LEFT AND TRAVEL 0.3 MILES TO THE FLAGGED ACCESS ON THE LEFT.

WELL FLAG LOCATED AT LAT. 36.77461° N, LONG. 107.86544° W (NAD 83).

