

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2007 MAR 15 PM 1:31

RECEIVED
BLM
210 FARMINGTON NM

1a. Type of Work
DRILL

5. Lease Number
USA SF-078423
Unit Reporting Number
NMNM-7847A-MV

1b. Type of Well
GAS

6. If Indian, All. or Tribe

2. Operator
BURLINGTON
RESOURCES Oil & Gas Company, LP

7. Unit Agreement Name
San Juan 29-7 Unit

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499
(505) 326-9700

8. Farm or Lease Name

9. Well Number
#29M

4. Location of Well
Surf: Unit J (NWSE), 2100' FSL & 2625' FEL
BH: Unit J (NWSE), 785' FSL & 1925' FSL
SURF: Latitude 36° 43.4513 N
Longitude 107° 31.2990 W
BH: Latitude 36° 43.2358 N
Longitude 107° 31.4493 W

10. Field, Pool, Wildcat
Blanco MV/Basin DK

11. Sec., Twn, Rge, Mer. (NMPM)
J Sec. 13, T29N, R7W

API # 30-039-30227

14. Distance in Miles from Nearest Town
22 mile/Blanco

12. County
Rio Arriba

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
785'

16. Acres in Lease

17. Acres Assigned to Well
DK & MV - 320 (W/2)

18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease
52' San Juan 29-7 Unit 33B

19. Proposed Depth
7923'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
6305' GL

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Rhonda Rogers (Regulatory Technician)

NOTIFY AZTEC 24 HRS.
PRIOR TO CASING & CEMENT

3-15-07

PERMIT NO. APPROVAL DATE

APPROVED BY [Signature] TITLE AFM DATE 4/17/07

Archaeological Report attached

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.2 and appeal pursuant to 43 CFR 3165.4

4/19/07

NMOCD

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

DISTRICT I
1635 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1304 West Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1006 E. Service Rd., Aztec, N.M. 87410

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-103
Revised October 12, 2005

2007 Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

RECEIVED
FLM
210 FARMINGTON NM
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30227	*Pool Code 71599/72319	*Pool Name Basin Dakota / Blanco Mesaverde
*Property Code 7465	*Property Name SAN JUAN 28-7 UNIT	*Well Number 28M
*O&G No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	*Elevation 6305'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot No.	Feet from the	North/South line	Feet from the	East/West line	County
J	13	28-N	7-W		2100'	SOUTH	2625'	EAST	REG ARIZONA

11 Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot No.	Feet from the	North/South line	Feet from the	East/West line	County
H	13	28-N	7-W		785'	SOUTH	1925'	WEST	REG ARIZONA

*Dedicated Acres 320 acres DK/MV W2	*Acet or Infill	*Consolidation Code	*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

<p>USA SF-078423</p> <p>Surface LAT: 36°43.4813' N. LONG: 107°31.2990' W. NAD 1927 LAT: 36°43.4195' N. LONG: 107°31.2256' W. NAD 1983</p> <p>Bottom Hole LAT: 36°43.2358' N. LONG: 107°31.4493' W. NAD 1927 LAT: 36°42.0604' N. LONG: 107°32.4761' W. NAD 1983</p> <p>USA SF-078514</p> <p>2625'</p> <p>2100'</p> <p>785'</p> <p>1925'</p> <p>2625'</p> <p>2031.73'</p>	<p>13</p> <p>Surface</p> <p>Bottom Hole</p>	<p>12 OPERATOR CERTIFICATION</p> <p>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 mineral interest in the land underlying the proposed well location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement, or a compulsory pooling order heretofore entered by the Division.</p> <p><i>Kandis Roland</i> Signature Kandis Roland Printed Name</p> <p>13 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of recent surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>2-1-07 Date of Survey</p> <p><i>Edwin W. Russell</i> Signature and Seal of Professional Surveyor Certificate Number 15703</p>
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Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

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

Form C-103

May 27, 2004

WELL API NO.

30-039- 30227

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

USA SF-078423

7. Lease Name or Unit Agreement Name

San Juan 29-7 Unit

8. Well Number

#29M

9. OGRID Number

14538

10. Pool name or Wildcat

Blanco MV/Basin DK

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil Well ☐Gas Well ☒

Other

2. Name of Operator

BURLINGTON RESOURCES OIL & GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter J : 2100' feet from the South line and 2625' feet from the East line
Section 13 Township 29N Rng 7W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

6305'

Pit or Below-grade Tank Application

☐ or Closure ☐

Pit type

New Drill

Depth to Groundwater

>100'

Distance from nearest fresh water well

<100

Distance from nearest surface water

>1000'

Pit Liner Thickness:

12

mil

Below-Grade Tank:

Volume

bbls;

Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐PLUG AND ABANDON ☐TEMPORARILY ABANDON ☐CHANGE PLANS ☐PULL OR ALTER CASING ☐MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐P AND A ☐CASING/CEMENT JOB ☐

OTHER:

New Drill ☒OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Lined:

Burlington Resources proposes to construct a new drilling pit and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit will be a lined pit as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids and that portion will be lined as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE

TITLE

Regulatory Technician

DATE

3-15-07

Type or print name

Rhonda Rogers

E-mail address:

rogerrs@conocophillips

Telephone No.

505-599-4018

For State Use Only

DEPUTY OIL & GAS INSPECTOR, DIST. #4

APPROVED BY

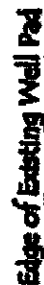
TITLE

DATE

'APR 19 2007

Conditions of Approval (if any):

GROUND ELEVATION: 6305', DATE: JANUARY 15, 2007



LATITUDE 36° 43.45'E N LONGITUDE 107° 51.290' W NAD27

RESERVE PIT DIRT TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 5' WIDE AND 1' ABOVE SHALLOW SIDE).

NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED
PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

SAN JUAN 29-7 UNIT 29M, 2100' FSL & 2625' FEL
SECTION 13, T-29-N, R-7-W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6305', DATE: JANUARY 15, 2007

[illegible][illegible][illegible]

NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

SJ 29-7 #29M OPERATIONS PLAN

Well Name: SJ 29-7 #29M

Objective: Mesa Verde/Dakota

Location: Rio Arriba NM

Elevation: 6305'

Surface Coordinates/Footages

T - 29 N R - 7 W Sec.: 13
 2100' FSL 2625' FEL
 Latitude: 36° .7242' N
 Longitude: 107° .5217' W

Bottom Hole Coordinates/Footages

T - 29 N R - 7 W Sec.: 13
 785' FSL 1925' FWL
 Latitude: 36° .7206' N
 Longitude: *107° .5242' W

<u>Formation</u>	<u>Top (TMD)</u>	<u>Top (TVD)</u>	<u>Contents</u>
San Jose	0	0	
Ojo Alamo	2469'	2320'	aquifer
Kirtland	2667'	2500'	
Fruitland	3237'	3020'	gas
Pictured Cliffs	3494'	3254'	
Lewis	3652'	3398'	
Chacra	4494'	4195'	
Cliffhouse	4999'	4700'	
Massive Cliff House	5205'	4906'	gas
Menefee	5306'	5007'	gas
Massive Point Lookout	5650'	5351'	gas
Mancos	6078'	5779'	
Gallup	6872'	6573'	gas
Greenhorn	7601'	7302'	gas
Graneros	7662'	7363'	
Two Wells	7713'	7414'	
Paguate	7792'	7493'	
Cubero	7814'	7515'	gas
Lower Cubero	7846'	7547'	
Total Depth:	7923'	7624'	gas

Logging Program: Cased Hole: CBL-GR
 Open Hole: None

<u>Mud Program:</u>	<u>Interval (TMD)</u>	<u>Type</u>	<u>Weight (ppg)</u>	<u>Vis. (s/qt)</u>	<u>Fluid Loss (cc/30min)</u>
	0' - 250' 200'	Spud	8.4-9.0	40-50	No control
	250' - 4699'	Non-dispersed	8.4-9.0	30-60	Less than 8
	4699' - 7923'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

<u>Casing program:</u>	<u>Interval (TMD)</u>	<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>
	0' - 250'	12 1/4"	9 5/8"	32.3#	H-40
	250' - 4699'	8 3/4"	7"	23.0#	L-80
	4699' - 7923'	6 1/4"	4 1/2"	11.6#	L-80

<u>Tubing program:</u>	<u>Interval (TMD)</u>	<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>
	0' - 7923'	Cased	2 3/8"	4.7#	J-55

Wellhead Equipment

9 5/8" x 7" X 4 1/2" x 2 3/8" - 11" (2000 psi) wellhead assembly

Drilling: Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

Surface

Drill to surface casing point of 250' and set 9.625" casing.

Intermediate

Mud drill to kick off point of 300'. At this point the well will be directionally drilled by building 3 degrees per 100' with an azimuth of 209.04 degrees. The end of the build will be at a TVD of 1037', a TMD of 1061', a reach of 170', and an inclination of 24.33 degrees. This angle and azimuth will be held to a TVD of 3613', a TMD of 3888', and a reach of 1298'. At this point the well will be drilled with a drop of 3 degrees per 100'. The end of the drop will be at a TVD of 4400', a TMD of 4697', a reach of 1504', and an angle of 0.0 degrees. 7" casing will be set at this point.

Production

From the shoe of the intermediate string, the well will be drilled vertically with an air hammer to a TVD of 7624' (TMD of 7923'). 4.5" casing will be set at this point.

Cementing

9.625" surface casing conventionally drilled: **125%** excess cement to bring cement to surface.

Run 177 cu.ft. (138 sks) Type III cement with 3% CaCl₂ and 1/4 pps celloflake (1.28 sks/ cu.ft.). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60° F prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.

7" intermediate casing: **50%** excess cement to bring cement to surface.

Lead with 936 cu.ft. (439 sks) Premium Lite w/ 3% CaCl₂, 0.25 pps Cello-Flake, 5 pps LCM-1, 0.4% FL-52 and 0.4% SMS (2.13 sks/ft³). Tail with 124 ft³ (90 sks) Type III cmt. w/ 1% CaCl₂, 0.25 pps Cello-Flake and 0.2% FL-52 (1.38 sks/ft³). If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC.

4.5" production casing: **30%** excess cement to achieve 100' overlap with intermediate casing.

Run 442 cu.ft. (223 sks) Premium Lite HS FM + 0.25pps Cello-Flake, 0.3% CD-32, 6.25pps LCM-1, 1% FL-52 (1.98 sks/ft³.)

BOP and Tests

Surface to Total Depth – 11", 2000 psi double gate BOP stack (Reference Figure #1).

Surface to Total Depth – choke manifold (Reference Figure #2).

Prior to drilling out surface casing, test BOPE and casing to 600 psi for 30 minutes.

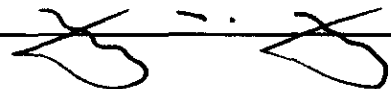
Pipe rams will be actuated at least once each day and blind rams will be actuated once each trip to test proper functioning. A Kelly cock valve and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

BOPE tests will be performed using an appropriately sized test plug and test pump and will be recorded using calibrated test gauges and a properly calibrated strip or chart recorder. The test will be recorded in the driller's log and will include a low pressure test requirement of 250 psig held for five minutes and a high pressure test requirement held for ten minutes as described in Onshore Order No. 2 or otherwise noted in the APD. A successful BOPE test using a test plug is considered when no pressure drop occurs over the duration of the test. Test gauges and recorders must be of the proper range and resolution commensurate with the authorized test pressure. Where the intermediate casing strings are used, only one BOPE test will be necessary contingent upon the test being conducted to the highest approved test pressure to which BOPE will be exposed. Casing pressure tests must be held for 30 minutes with no more than 10 percent pressure drop during the duration of the test.

Additional Information:

- No gas dedication.
- New casing will be utilized.
- Pipe movement (reciprocation) will be done if hole conditions permit.
- No abnormal pressure zones are expected.
- BHP is expected to be 2000 psi.

2400 psi



2/21/07

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-7 UNIT 29M

DEVELOPMENT: 28

Lease:		AFE #: WAN.CDR.7033		AFE \$:	
Field Name: hBR_SAN JUAN 29-7 UNIT		Rig: Aztec Rig 730		State: NM County: RIO ARRIBA API #:	
Geologist:		Phone:		Geophysicist: Phone:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer: Phone:	
Res. Engineer: McKee, Cory J		Phone: 505-326-9826		Proi. Field Lead: Phone:	

Primary Objective (Zones):

Zone	Zone Name
FRR	BASIN DAKOTA (PRORATED GAS)
RON	BLANCO MESAVERDE (PRORATED GAS)

Location: Surface		Datum Code: NAD 27		Deviated	
Latitude: 36.724188	Longitude: -107.521650	X:	Y:	Section: 13	Range: 007W
Footage X: 2625 FEL	Footage Y: 2100 FSL	Elevation: 6305	(FT)	Township: 029N	
Tolerance:					

Location: Bottom Hole		Datum Code: NAD 27		Deviated	
Latitude: 36.720597	Longitude: -107.524155	X:	Y:	Section: 13	Range: 007W
Footage X: 1925 FWL	Footage Y: 785 FSL	Elevation:	(FT)	Township: 029N	
Tolerance:					

Location Type: Year Round	Start Date (Est.):	Completion Date:	Date In Operation:
Formation Data: Assume KB = 6319 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6119	<input type="checkbox"/>			12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 235 cuft. Circulate cement to surface.
OJAM	2320	3999	<input type="checkbox"/>			
KRLD	2500	3819	<input type="checkbox"/>			
FRLD	3020	3299	<input type="checkbox"/>			Possible Gas
PCCF	3254	3065	<input type="checkbox"/>			
LEWS	3398	2921	<input type="checkbox"/>			
CHRA	4195	2124	<input type="checkbox"/>			
Intermediate Casing	4400	1919	<input type="checkbox"/>			8-3/4" Hole. 7", 32 ppf, L-80, LTC. Circulate cement to surface. Cement with 1060 cuft.
UCLFH	4700	1619	<input type="checkbox"/>			Gas
MASSIVE CLIFF HOUSE	4906	1413	<input type="checkbox"/>	669		Gas
MENF	5007	1312	<input type="checkbox"/>			
PTLK	5351	968	<input type="checkbox"/>			
MNCS	5779	540	<input type="checkbox"/>			
GLLP	6573	-254	<input type="checkbox"/>			
GRHN	7302	-983	<input type="checkbox"/>			
GRRS	7363	-1044	<input type="checkbox"/>			
TWLS	7414	-1095	<input type="checkbox"/>	2400		Gas
PAGU	7493	-1174	<input type="checkbox"/>			
CBRO	7515	-1196	<input type="checkbox"/>			
CBRL	7547	-1228	<input type="checkbox"/>			ENCN 77' below CBRL
TOTAL DEPTH DK	7624	-1305	<input type="checkbox"/>			TD T/ENCN. 6-1/4" Hole. 4-1/2", 10.6/11.6 ppf, J-55 STC/LTC casing. Cement with 442 cuft. Circulate cement a minimum of 100' inside the previous casing string. Cement with 442 cuft.

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 29-7 UNIT 29M

DEVELOPMENT

Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	SJ 29-7 #33B	SW 13-29N-7W
Production	SJ 29-7 #71B	NE 24-29N-7W

Logging Program:			
Intermediate Logs:	<input type="checkbox"/> Log only if show	<input type="checkbox"/> GR/ILD	<input type="checkbox"/> Triple Combo

TD Logs:	<input type="checkbox"/> Triple Combo	<input type="checkbox"/> Dipmeter	<input type="checkbox"/> RFT	<input type="checkbox"/> Sonic	<input type="checkbox"/> VSP	<input type="checkbox"/> TDT	<input checked="" type="checkbox"/> Other
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GR_CBL, MUDLOG from 100' above GRHN to TD

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Comments: Location/Tops/Logging - DK 29N07W13SW1 AND MVNM029N007W13SW2; MUDLOGGER 100' above GRHN to TD

Zones - DK 29N07W13SW1 AND MVNM029N007W13SW2

General/Work Description - Well changed to directional 1/3/07 - LM, email attached. LEWIS INCLUDED

ConocoPhillips

Survey Report

Company:	ConocoPhillips Lower 48	Local Co-ordinate Reference:	Well SJ 29-7 #29M
Project:	San Juan Basin	TVD Reference:	WELL @ 6320.0ft (Original Well Elev)
Site:	MV/DK	MD Reference:	WELL @ 6320.0ft (Original Well Elev)
Well:	SJ 29-7 #29M	North Reference:	Grid
Wellbore:	SJ 29-7 #29M	Survey Calculation Method:	Minimum Curvature
Design:	SJ 29-7 #29M	Database:	EDM Central Planning

Planned Survey									
Measured Depth (ft)	Inclination (d)	Azimuth (d)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (d/100ft)	Build Rate (d/100ft)	Turn Rate (d/100ft)
7,900.0	0.00	0.00	7,600.6	-1,315.0	-730.0	1,504.0	0.00	0.00	0.00
7,923.4	0.00	0.00	7,624.0	-1,315.0	-730.0	1,504.0	0.00	0.00	0.00
TD - SJ 29-7 #29M - PCP									

Targets									
Target Name - hit/miss target - Shape	Dip Angle (d)	Dip Dir. (d)	TVD (ft)	+N/-S ft	+E/-W ft	Northing (ft)	Easting (ft)	Latitude	Longitude
SJ 29-7 #29M - ICP - plan hits target - Point	0.00	0.00	4,400.0	-1,315.0	-730.0	2,081,693.43	590,614.09	36° 43' 14.097" N	107° 31' 26.959" W
SJ 29-7 #29M - PCP - plan hits target - Point	0.00	0.00	7,624.0	-1,315.0	-730.0	2,081,693.43	590,614.09	36° 43' 14.097" N	107° 31' 26.959" W

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)	
2,469.2	2,320.0	Ojo Alamo		0.00		
2,666.7	2,500.0	Kirtland		0.00		
3,237.4	3,020.0	Fruitland		0.00		
3,494.2	3,254.0	Pictured Cliffs		0.00		
3,652.3	3,398.0	Lewis		0.00		
4,494.0	4,195.0	Chacra		0.00		
4,999.4	4,700.0	Cliffhouse		0.00		
5,205.4	4,906.0	Massive Cliffhouse		0.00		
5,306.4	5,007.0	Menefee		0.00		
5,650.4	5,351.0	Pt. Lookout		0.00		
6,078.4	5,779.0	Mancos		0.00		
6,872.4	6,573.0	Gallup		0.00		
7,601.4	7,302.0	Greenhorn		0.00		
7,662.4	7,363.0	Graneros		0.00		
7,713.4	7,414.0	Two Wells		0.00		
7,792.4	7,493.0	Paguate		0.00		
7,814.4	7,515.0	Upper Cubero		0.00		
7,846.4	7,547.0	Lower Cubero		0.00		
7,923.4	7,624.0	TD		0.00		

Checked By: _____	Approved By: _____	Date: _____
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