

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 02 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Bureau of Land Management
Farmington Field Office

1a. Type of Work DRILL	5. Lease Number SF-079265 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name RCVD MAR 16 '10 OIL CONS. DIV. DIST. 3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Klein 9. Well Number 28N
4. Location of Well Surf: Unit C(NENW), 1244' FNL & 1621' FWL Bottomhole: Unit F(SENW), 2065' FNL & 1865' FWL Surf: Latitude: 36.44671° N (NAD83) Longitude: 107.47644° W Bottomhole: Latitude: 36.44447° N (NAD83) Longitude: 107.47555° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) C Sec. 33, T26N, R6W API # 30-039-30942
14. Distance in Miles from Nearest Town 43 miles / Bloomfield	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1244'	
16. Acres in Lease 2,242.480	17. Acres Assigned to Well 320.00 W/2 - MV/DK
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 72' from Klein 28E (DK)	
19. Proposed Depth 7474'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6760' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	<u>3/1/2010</u> Date

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 3/15/2010

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

Bond Numbers NMB-000015 and NMB-000089

MAR 17 2010

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

Hold C104
for Directional Survey
and 'As Drilled' plat

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

NMOCD

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

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

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

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

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

RECEIVED

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

Bureau of Land Management

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30942	² Pool Code 72319 / 71599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 7228	⁵ Property Name KLEIN	⁶ Well Number 28 N
⁷ OGRD No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6760'

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
C	33	26N	6W		1244'	NORTH	1621'	WEST	RIO ARRIBA

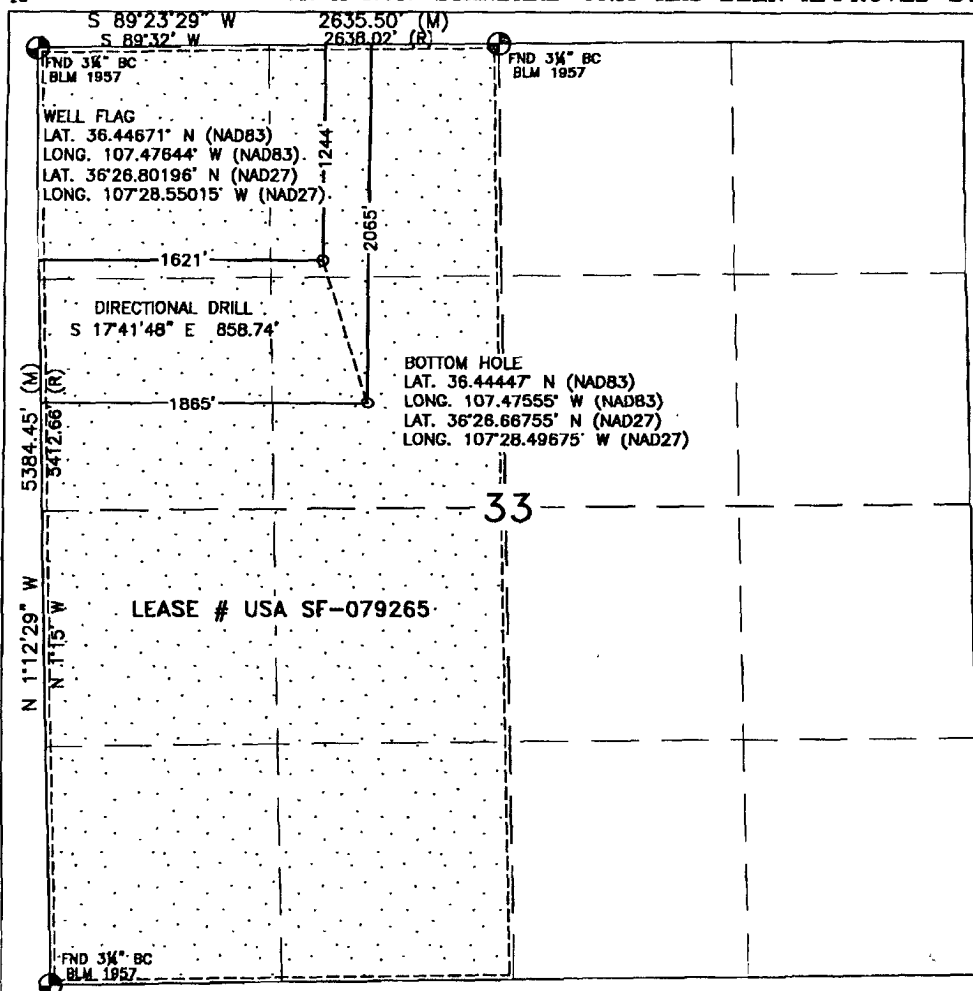
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	33	26N	6W		2065'	NORTH	1865'	WEST	RIO ARRIBA

¹² Dedicated Acres 320.00 ACRES - W/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

16



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 or a compulsory pooling order heretofore entered by the division.

Crystal Tafoya 5/6/09
Signature Date

Crystal Tafoya 5-6-09
Printed Name

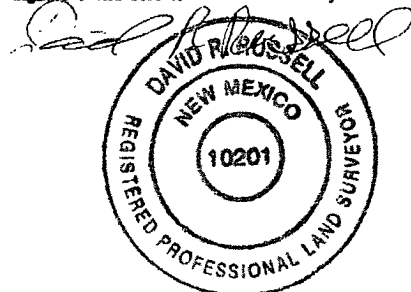
¹⁸ SURVEYOR CERTIFICATION

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.

APRIL 27, 2009

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL
Certificate Number 10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

KLEIN 28N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9078				AFE \$: 1,519,608.72	
Field Name: SAN JUAN		Rig: XXX 2010 Holding		State: NM	County: RIO ARRIBA	API #:	
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.446699	Longitude: -107.475836	X:	Y:	Section: 33	Range: 006W		
Footage X: 1621 FWL	Footage Y: 1244 FNL	Elevation: 6761	(FT)	Township: 026N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.444459	Longitude: -107.474946	X:	Y:	Section: 33	Range: 006W		
Footage X: 1865 FWL	Footage Y: 2065 FNL	Elevation:	(FT)	Township: 026N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6777		Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6577	☐			12-1/4" hole, 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.	
OJO ALAMO	2270	4507	☐				
KIRTLAND	2439	4338	☐				
FRUITLAND	2522	4255	☐			Possible Gas	
PICTURED CLIFFS	2927	3850	☐				
LEWIS	3017	3760	☐				
HUERFANITO BENTONITE	3322	3455	☐				
CHACRA	3775	3002	☐				
MASSIVE CLIFF HOUSE	4562	2215	☐				
MENEFEE	4607	2170	☐				
Intermediate Casing	4757	2020	☐			8-3/4" hole, 7" 23ppf J-55 LTC casing, Cement with 1104 cuft. Circ cement to surface	
POINT LOOKOUT	5152	1625	☐	448		GAS	
MANCOS	5477	1300	☐				
UPPER GALLUP	6202	575	☐				
GREENHORN	7081	-304	☐				
GRANEROS	7137	-360	☐				
TWO WELLS	7193	-416	☐	2885		Gas	
UPPER CUBERO	7278	-501	☐				
LOWER CUBERO	7310	-533	☐				
OAK CANYON	7338	-561	☐				
ENCINAL	7382	-605	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

KLEIN 28N

DEVELOPMENT

Total Depth	7474	-697	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55 / L-80 LTC casing. Cement with 374 cuft. Circulate cement a minimum of 100' into previous casing
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Reference Wells:

Reference Type	Well Name	Comments
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Logging Program:

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

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

Est bottom perf ~20' above the est TD. Mudlog from ~100' above the Greenhorn to TD. Mudloggers will call final 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 Klein #28N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6777.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6777.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Klein #28N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (%)	Dip Direction	
7,457.2	7,310.0	Lower Cubero		0.00		
3,059.5	2,927.0	Pictured Cliffs		0.00		
2,530.7	2,439.0	Kirtland		0.00		
7,529.2	7,382.0	Encinal		0.00		
6,349.2	6,202.0	Upper Gallup		0.00		
7,228.2	7,081.0	Greenhorn		0.00		
3,154.8	3,017.0	Lewis		0.00		
5,624.2	5,477.0	Mancos		0.00		
3,468.3	3,322.0	Huerfano Bentonite		0.00		
5,299.2	5,152.0	Point Lookout		0.00		
7,485.2	7,338.0	Oak Canyon		0.00		
2,347.3	2,270.0	Ojo Alamo		0.00		
3,922.2	3,775.0	Chacra		0.00		
2,620.7	2,522.0	Fruitland		0.00		
7,425.2	7,278.0	Upper Cubero		0.00		
4,754.2	4,607.0	Menefee		0.00		
4,709.2	4,562.0	Massive Cliff House		0.00		
7,621.2	7,474.0	Total Depth		0.00		
7,340.2	7,193.0	Two Wells		0.00		
7,284.2	7,137.0	Graneros		0.00		

REFERENCE INFORMATION

RKB @ 6777.0ft (Original Well Elev)
Ground Elevation 6761.0
Reference Lat: 36° 26' 48.118 N
Reference Long: 107° 28' 33.009 W

Project: San Juan Basin - New Mexico Wells

Site: Other Named Wells

Well: Klein #28N

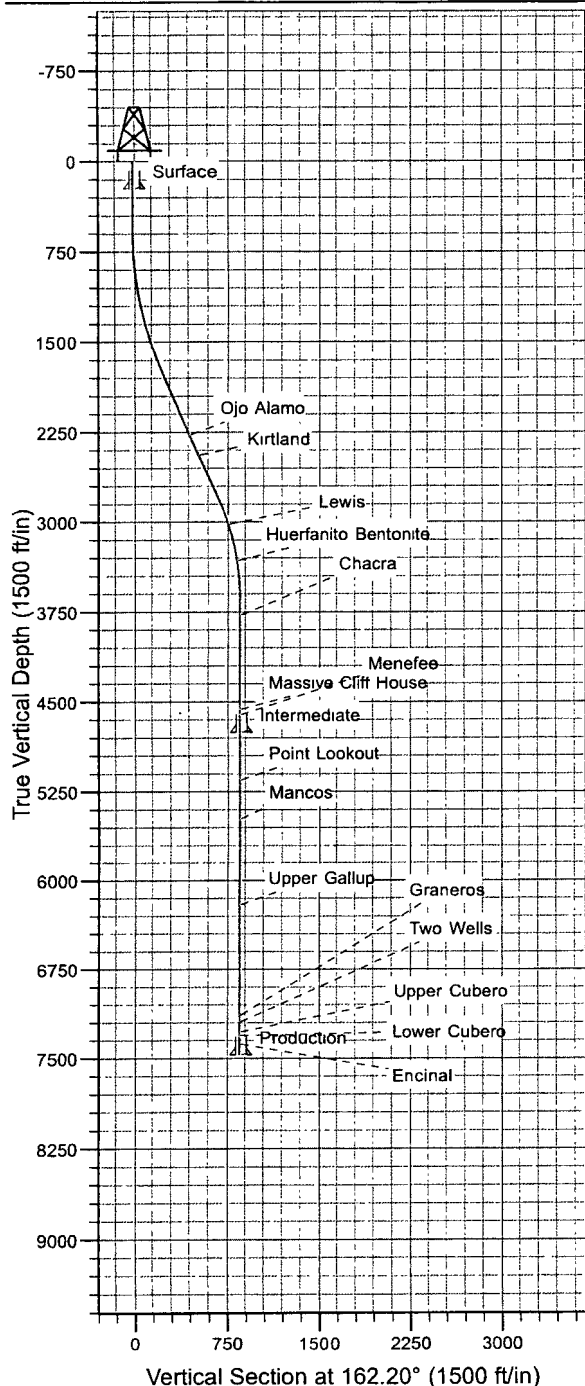
Wellbore: Principal Wellbore

Design: Plan #1

ConocoPhillips

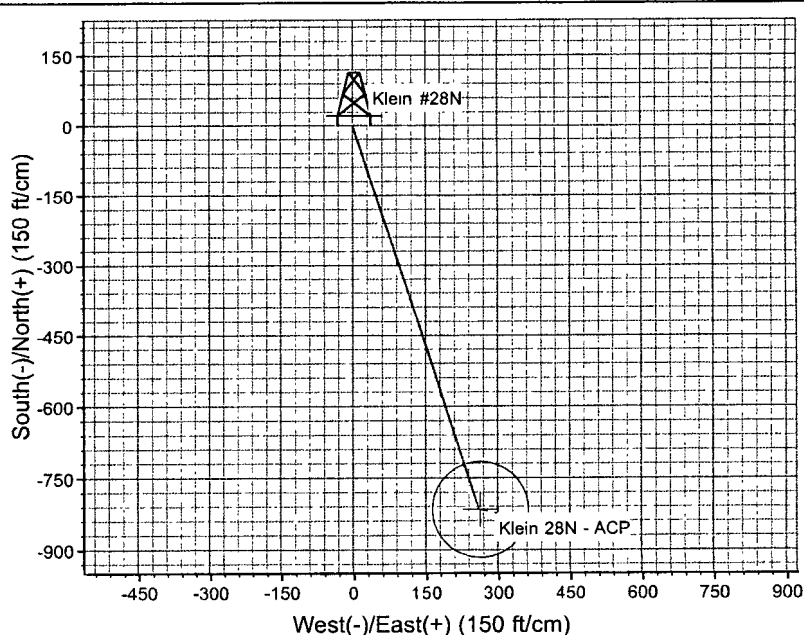
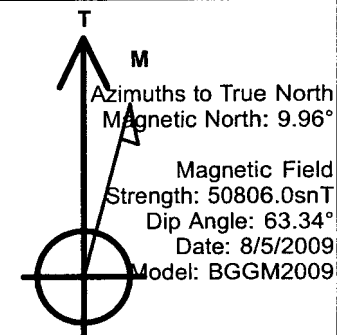
SECTION DETAILS

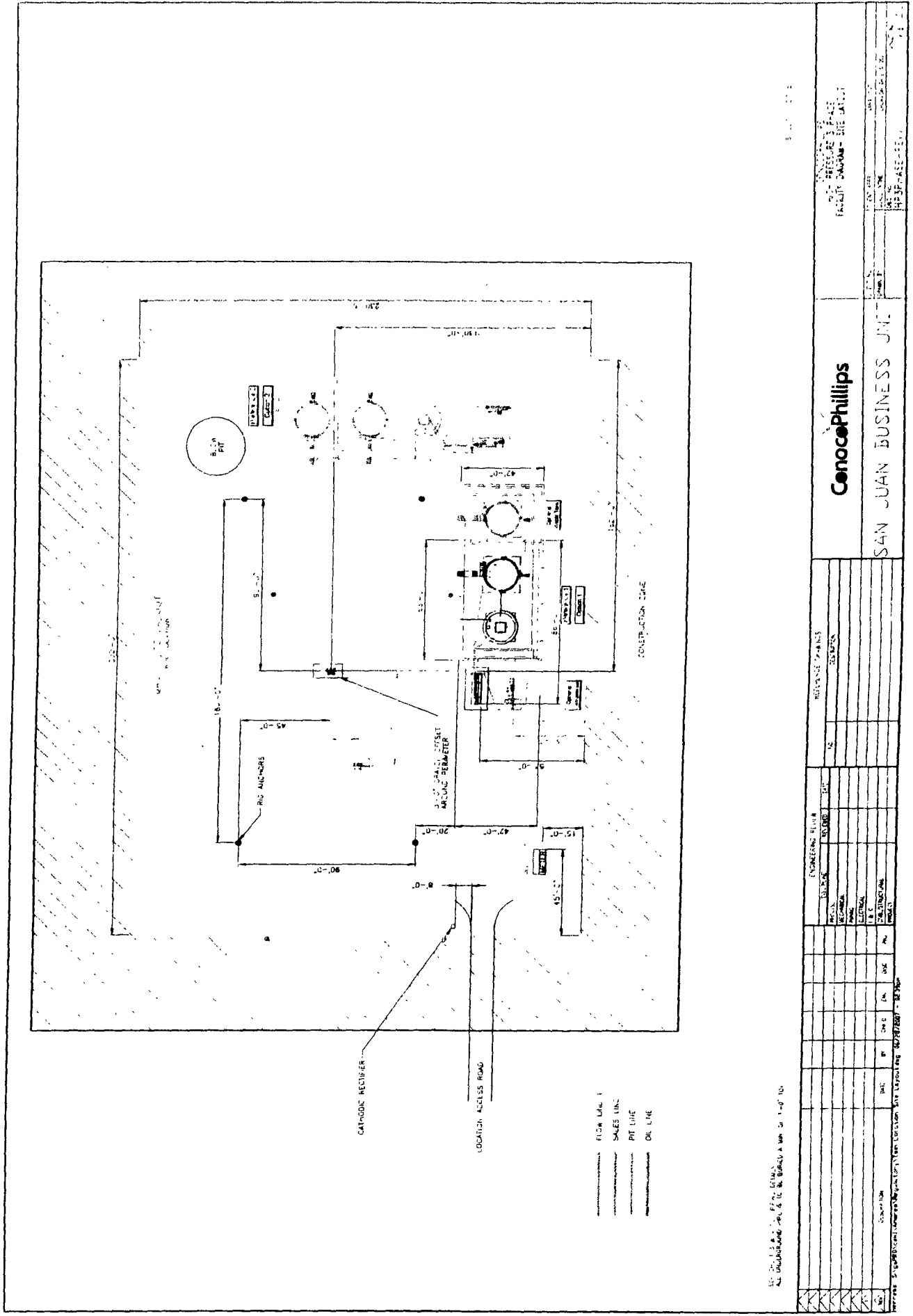
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1740.2	22.80	162.20	1710.4	-213.2	68.4	2.00	162.20	223.9	
4	2987.1	22.80	162.20	2859.8	-673.4	216.2	0.00	0.00	707.2	
5	3747.2	0.00	0.00	3600.0	-815.5	261.8	3.00	180.00	856.5	Klein 28N - ACP
6	4904.2	0.00	0.00	4757.0	-815.5	261.8	0.00	0.00	856.5	Klein #28N - ICP
7	7621.2	0.00	0.00	7474.0	-815.5	261.8	0.00	0.00	856.5	Klein #28N PCP



FORMATION TOP DETAILS

TVDP	MD	Path	Formation
2270.0	2347.3		Ojo Alamo
2439.0	2530.7		Kirtland
2522.0	2620.7		Fruitland
2927.0	3059.5		Pictured Cliffs
3017.0	3154.8		Lewis
3322.0	3468.3		
3775.0	3922.2		Chacra
4562.0	4709.2		Huerfano Bentonite
4607.0	4754.2		Massive Cliff House
5152.0	5299.2		Menefee
5477.0	5624.2		Point Lookout
6202.0	6349.2		Mancos
7081.0	7228.2		Upper Gallup
7137.0	7284.2		Greenhorn
7193.0	7340.2		Graneros
7278.0	7425.2		Two Wells
7310.0	7457.2		Upper Cubero
7338.0	7485.2		Lower Cubero
7382.0	7529.2		Oak Canyon
7474.0	7621.2		Encinal
			Total Depth





1.5" = 10' 0" (1" = 66' 0")
 ALL DIMENSIONS ARE TO THE CENTERLINE UNLESS NOTED OTHERWISE

CONSTRUCTION				REVENUE				SALES				TOTAL			
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1				1				1				1			
2				2				2				2			
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ConocoPhillips
 SAN JUAN BUSINESS UNIT

PREPARED BY: J. L. HARRIS
 CHECKED BY: J. L. HARRIS
 DATE: 10/1/80

BURLINGTON RESOURCES OIL & GAS COMPANY LP

KLEIN #28 N

1244' FNL & 1621' FWL

LOCATED IN THE NE/4 NW/4 OF SECTION 33,
T26N, R6W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM WHERE HWY 550 TURNS INTO AND MERGES WITH HWY 64 IN BLOOMFIELD, GO LEFT AND TRAVEL EASTERLY FOR 10.1 MILES TO CR 4450 (LARGO TURN OFF).
- 2) TURN RIGHT AND TRAVEL 25.2 MILES TO OLD SCHOOL HOUSE.
- 3) TURN RIGHT & GO 2.5 MILES BY HOUSE.
- 4) TURN LEFT & GO ACROSS WASH THEN GO 2.8 MILES.
- 5) TURN RIGHT & TRAVEL UP MESA FOR 1.5 MILES.
- 6) TURN RIGHT & GO 0.5 MILES TO STAKED LOCATION ON LEFT SIDE OF ROAD.

WELL FLAG LOCATED AT LAT. 36.44671° N, LONG. 107.47644° W (NAD 83).

