

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	1b. Type of Well GAS	5. Lease Number USA SF-079250 NM NM-78411 A-MV Unit Reporting Number NM NM-78411 B-DK	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name San Juan 28-5 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name 9. Well Number #91N	
4. Location of Well Unit E (SWNW), 1425' FNL & 910' FWL Unit C (NENW), 1200' FNL & 2180' FWL Latitude 36.66453 N. Longitude 107.33444 W. Latitude 36.66515 N. Longitude 107.33012 W.		10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) E Sec. 14, T28N, R5W C Sec. 14, T28N, R5W API # 30-039-30446	
14. Distance in Miles from Nearest Town 6 mile/Gobernador	12. County Rio Arriba	13. State NM	
15. Distance from Proposed Location to Nearest Property or Lease Line 1425'			
16. Acres in Lease 2453.700	17. Acres Assigned to Well MV 320.0 (N/2)/DK 320.0 (W/2)		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 50' from San Juan 28-5 91M MV			
19. Proposed Depth 8401' TVD/8638.2' TMD	20. Rotary or Cable Tools Rotary		
21. Elevations (DF, FT, GR, Etc.) 6982' GL	22. Approx. Date Work will Start 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		
23. Proposed Casing and Cementing Program See Operations Plan attached		24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	
		Date <u>12/28/07</u>	

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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

FEB 01 2008
AU
DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

NMOCD

HOLD CHART FOR directional survey and as drilled C-102

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

District I
1625 N. French Dr., Hobbs, NM 88240

District II
1301 W Grand Avenue, 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 & Natural Resources Department

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

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

JAN 02 2008

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30446	*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 7460	*Property Name SAN JUAN 28-5 UNIT	*Well Number 91N
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP	*Elevation 6982'

10 Surface Location

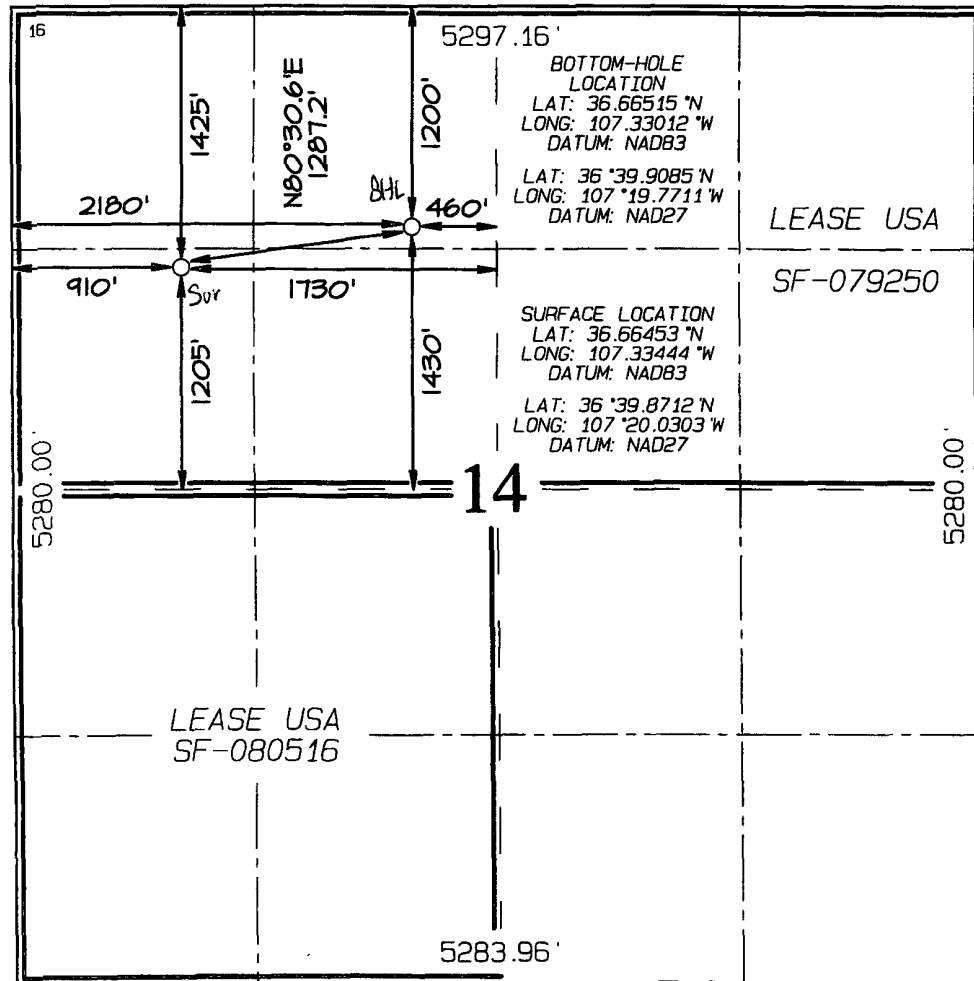
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	14	28N	5W		1425	NORTH	910	WEST	RIO ARriba

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
C	14	28N	5W		1200	NORTH	2180	WEST	RIO ARriba

12 Dedicated Acres	320.0 Acres - N/2 (MV) 320.0 Acres - W/2 (DK)	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



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.

Signature: Jamie Goodwin Date: 12-28-2007
Printed Name: Jamie Goodwin

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.

Survey Date: AUGUST 29, 2007

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

Submit 3 Copies To Appropriate District Office

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1625 N. French Dr , Hobbs, NM 88240

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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

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)		WELL API NO. 30-039- <u>30446</u>
1. Type of Well: Oil Well ☐ Gas Well ☒ Other		5. Indicate Type of Lease STATE ☐ FEE ☐
2. Name of Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP		6. State Oil & Gas Lease No. Federal Lease #USA SF-080516
3. Address of Operator 3401 E. 30TH STREET, FARMINGTON, NM 87402		7. Lease Name or Unit Agreement Name San Juan 28-5 Unit
4. Well Location Unit Letter <u>E</u> : <u>1425'</u> feet from the <u>North</u> line and <u>910'</u> feet from the <u>West</u> line Section <u>14</u> Township <u>28N</u> Rng <u>5W</u> NMPM County <u>Rio Arriba</u>		8. Well Number #91N
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6982'		9. OGRID Number 14538
Pit or Below-grade Tank Application ☐ or Closure ☐		10. Pool name or Wildcat Blanco MV/Basin DK
Pit type <u>New Drill</u> Depth to Groundwater <u>50</u> Distance from nearest fresh water well <u>>1000</u> Distance from nearest surface water <u><1000</u>		
Pit Liner Thickness: <u>12</u> mil Below-Grade Tank: Volume <u> </u> bbls; Construction Material <u> </u>		

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 ☐

OTHER: New Drill ☒

SUBSEQUENT REPORT OF:

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

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, an associated vent/flare pit and a pre-set mud pit (if required). Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and pre-set mud pit will be lined pits 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 Jamie Goodwin TITLE Regulatory Technician DATE 12/29/2007

Type or print name Jamie Goodwin E-mail address: goodwil@conocophillips.com Telephone No. 505-326-9784

For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE FEB 01 2008

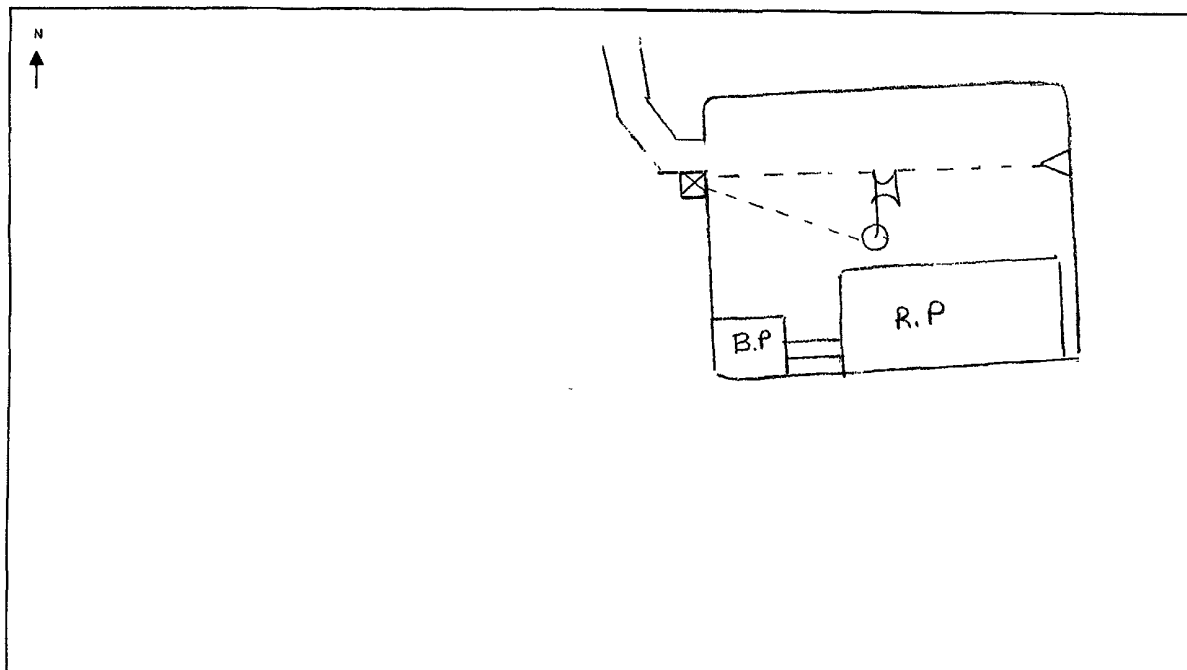
Conditions of Approval (if any):



CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME SJ 28-5 #91N LEGALS C-14-28-5 COUNTY Rio Arriba

PURPOSED C.P. SYSTEM: Drill GB on NE edge of location. Set rectifier on NW edge of location (southside of access). Trench approx 300' of positive cable from GB to rectifier. Trench approx 200' of #8 neg cable from proposed well to rectifier.



EXISTING WELLHEAD	METER HOUSE	G.B.	POWER SOURCE	CABLE	NEW WELL	OVERHEAD A.C.

COMMENTS: Dr could use solar

NEAREST POWER SOURCE Existing Rect SJ 28-5 #91M DISTANCE: 2500'
PIPELINES IN AREA:

TECHNICIAN: Michael H. Hargrave DATE: 6/21/07

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 91N

DEVELOPMENT /

Lease:		AFE #: WAN.CDR.7130		AFE \$:	
Field Name: hBR_SAN JUAN 28-5 UNIT		Rig: Aztec Rig 673		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer:	
Res. Engineer: McKee, Cory J		Phone: 505-326-9826		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
RON	BLANCO MESAVERDE (PRORATED GAS)				
<i>Directional</i>					
Location: Surface Datum Code: NAD 27 Straight Hole					
Latitude: 36.664522	Longitude: -107.333839	X:	Y:	Section: 14	Range: 005W
Footage X: 910 FWL	Footage Y: 1425 FNL	Elevation: 6982	(FT)	Township: 028N	
Tolerance:					
<i>Directional</i>					
Location: Bottom Hole Datum Code: NAD 27 Straight Hole					
Latitude:	Longitude:	X:	Y:	Section: 14	Range: 005W
Footage X: 2180 FWL	Footage Y: 1200 FNL	Elevation:	(FT)	Township: 28N	
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:	
Formation Data: Assume KB = 6994		Units = FT			
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	200	6794	☐		
OJO ALAMO	3338	3656	☐		
KIRTLAND	3410	3584	☐		
FRUITLAND	3666	3328	☐		Possible Gas
PICTURED CLIFFS	3956	3038	☐		
LEWIS	4120	2874	☐		
Intermediate Casing	4220	2774	☐		
HUERFANITO BENTONITE	4571	2423	☐		
CHACRA	4926	2068	☐		
MASSIVE CLIFF HOUSE	5749	1245	☐	680	Gas
MENEFEE	5819	1175	☐		
MASSIVE POINT LOOKOUT	6144	850	☐		
MANCOS	6441	553	☐		
UPPER GALLUP	7329	-335	☐		
GREENHORN	8076	-1082	☐		
GRANEROS	8137	-1143	☐		
TWO WELLS	8200	-1206	☐	2450	Gas
UPPER CUBERO	8263	-1269	☐		
LOWER CUBERO	8315	-1321	☐		
ENCINAL	8401	-1407	☐		
TOTAL DEPTH DK	8401	-1407	☐		
12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 157 cuft. Circulate cement to surface.					
8 3/4" Hole. 7", 20/23 ppf, J-55, STC/LTC Casing. Cement with 995 cuft. Circulate cement to surface.					
6-1/4" Hole. 4-1/2", 10.6/11.6 ppf, J-55 STC/LTC casing. Cement with 569 cuft. Circulate cement a minimum of 100' inside the previous casing string.					

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 91N

DEVELOPMENT

Reference Wells:		
Reference Type	Well Name	Comments

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

TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT	☒ Other
GR/CBL. Estimated bottom perf is ~20' above TD.							

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

Comments: Location/Tops/Logging - MVNM028N005W14NW2 DK 28N05W14NW2 Avoid E, no other wells, prefer C, F.

Zones - MVNM028N005W14NW2 DK 28N05W14NW2

General/Work Description - 7/9/07 Is economic as DD per Christy McMullan (wfp)
LEWIS FORMATION INCLUDED

ConocoPhillips or its affiliates

Survey Report

Company:	ConocoPhillips SJB	Local Co-ordinate Reference:	Well SJ 28-5 #91N
Project:	San Juan Basin	TVD Reference:	WELL @ 6997.0ft (Original Well Elev)
Site:	Monty's Site for directional MV/DK wells	MD Reference:	WELL @ 6997.0ft (Original Well Elev)
Well:	SJ 28-5 #91N	North Reference:	True
Wellbore:	SJ 28-5#91N	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM Central Planning

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)
8,638.2	0.00	0.00	8,401.0	225.0	1,270.0	1,289.8	0.00	0.00	0.00
TD - 4 1/2" - SJ 28-5 #91N-PCP									

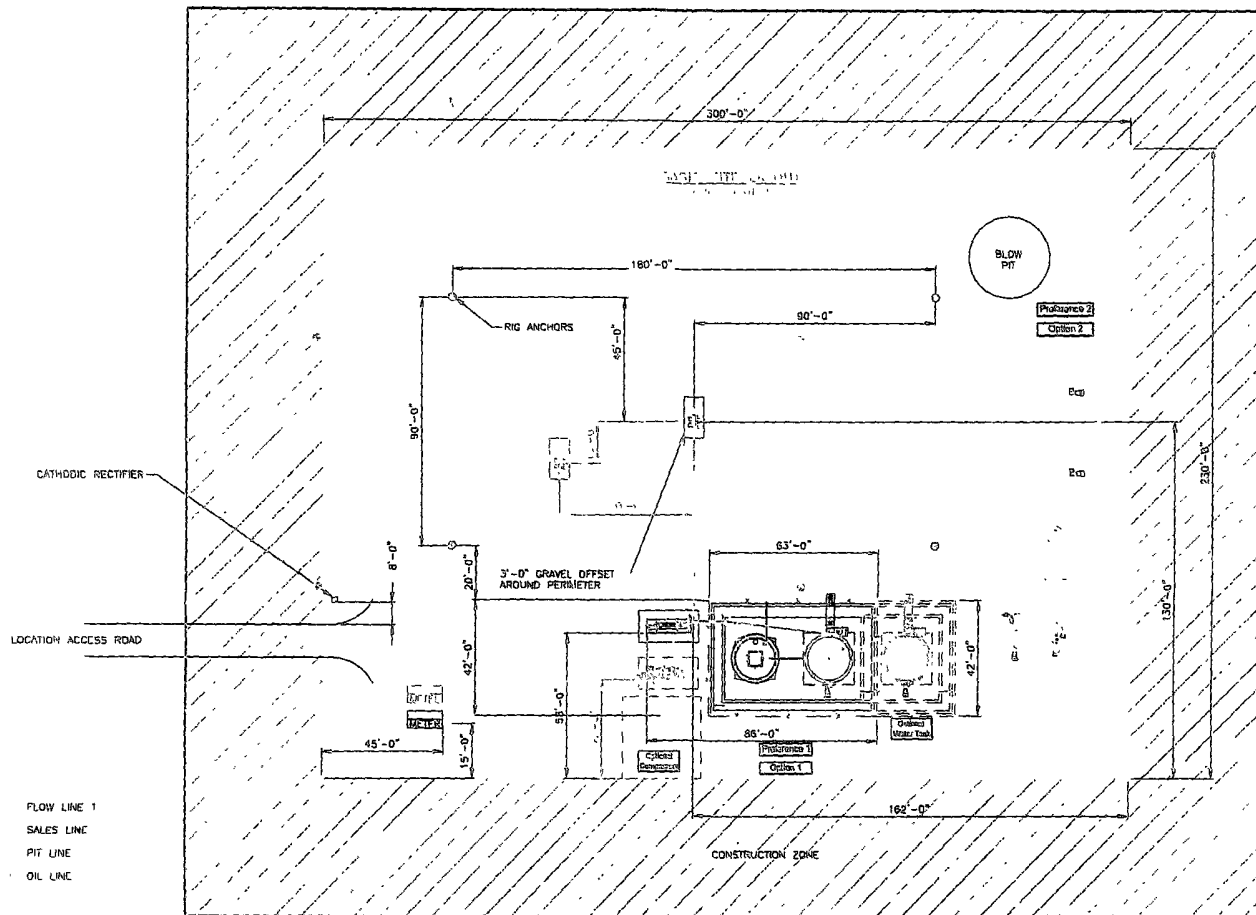
Targets

Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
SJ 28-5 #91N-PCP	- plan hits target	0.00	0.00	8,401.0	225.0	1,270.0	63.03	388.12	30° 59' 26.739 N	109° 25' 29.504 W
- Point										
SJ 28-5 #91N-ICP	- plan hits target	0.00	0.00	4,220.0	225.0	1,270.0	63.03	388.12	30° 59' 26.739 N	109° 25' 29.504 W
- Point										

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,543.6	3,338.0	Ojo Alamo		0.00	
3,621.6	3,410.0	Kirtland		0.00	
3,895.2	3,666.0	Fruitland		0.00	
4,192.4	3,956.0	Pictured Cliffs		0.00	
4,357.2	4,120.0	Lewis		0.00	
4,808.2	4,571.0	Huerf Bent		0.00	
5,163.2	4,926.0	Chacra		0.00	
5,986.2	5,749.0	Mass. Cliffhouse		0.00	
6,056.2	5,819.0	Menefee		0.00	
6,381.2	6,144.0	Pt Lookout		0.00	
6,678.2	6,441.0	Mancos Shale		0.00	
7,566.2	7,329.0	Gallup		0.00	
8,313.2	8,076.0	Greenhorn		0.00	
8,374.2	8,137.0	Graneros		0.00	
8,437.2	8,200.0	Two Wells		0.00	
8,500.2	8,263.0	Upper Cubero		0.00	
8,552.2	8,315.0	Lower Cubero		0.00	
8,638.2	8,401.0	TD		0.00	

Checked By: _____	Approved By: _____	Date: _____
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SEE SHEET 3 & 4 FOR PAVING DETAILS
ALL UNDERGROUND PIPE IS TO BE BURIED A MIN. OF 3'-0" TOP

SHEET 1 OF 5

ENGINEERING REVIEW										REFERENCE DRAWINGS					CENOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
DESIGNED	CHECKED	DATE	BY	APP.	DATE	BY	APP.	DATE	BY	APP.	DATE						
PROCESS												SAN JUAN BUSINESS UNIT			CUST. NO. CUST. APP. CUST. DATE SCALE DATE HYPSPHASE-REV1		
MECHANICAL																	
ELECTRICAL																	
1 & C																	
CIVIL/STRUCTURAL																	
PROJECT																	

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

BURLINGTON RESOURCES OIL & GAS COMPANY SAN JUAN 28-5 UNIT #91N **1425° FNL & 910° FWL, SECTION 14, T28N, R5W, NMPM** **RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6982°**

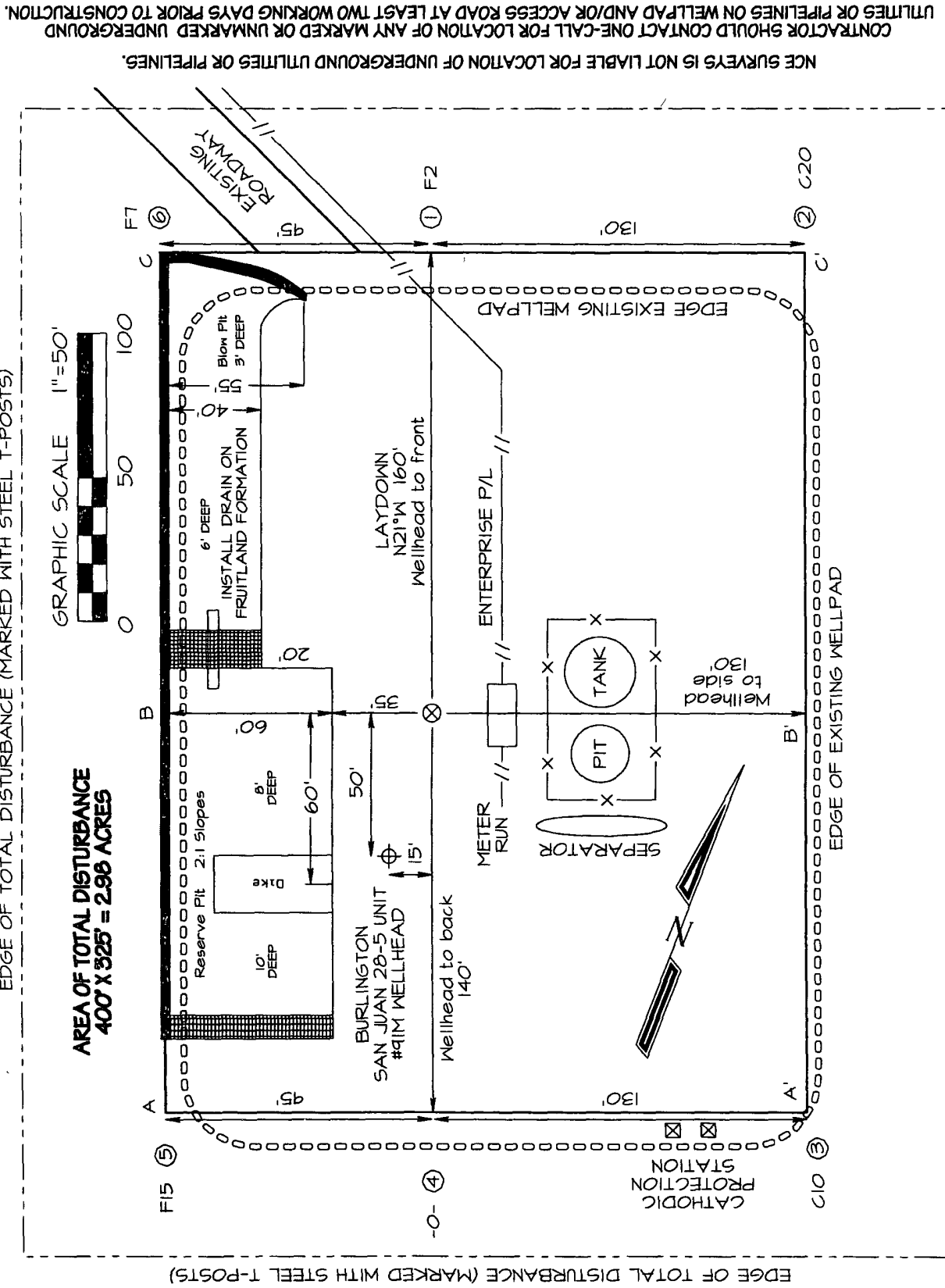
EDGE OF TOTAL DISTURBANCE (MARKED WITH STEEL T-POSTS)



AREA OF TOTAL DISTURBANCE
400' X 325' = 2.96 ACRES

LATITUDE: 36°39.8712'N
LONGITUDE: 107°20.0303'W
 DATUM: NAD1927

~ SURFACE OWNER ~
Bureau of Land Management



EDGE OF TOTAL DISTURBANCE (MARKED WITH STEEL T-POSTS)

CONTRACTOR SHOULD ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

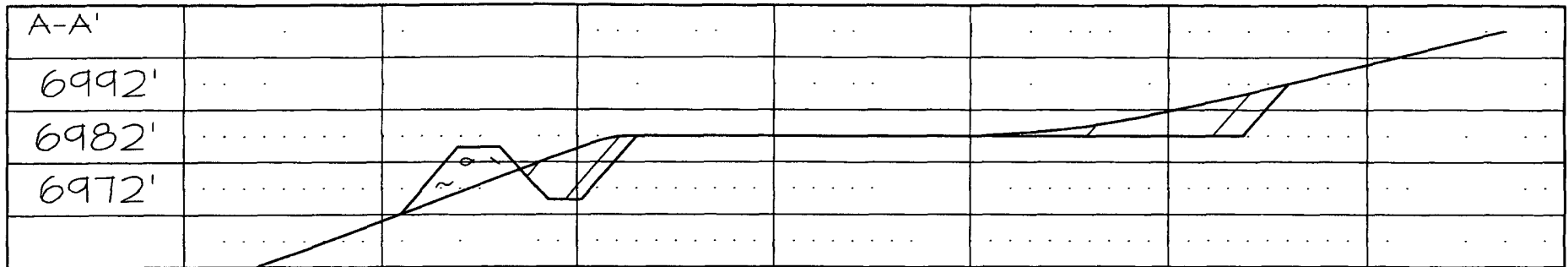
NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

**BURLINGTON RESOURCES OIL & GAS COMPANY SAN JUAN 28-5 UNIT #91N
1425' FNL & 910' FWL, SECTION 14, T28N, R5W, NMPM
RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6982'**

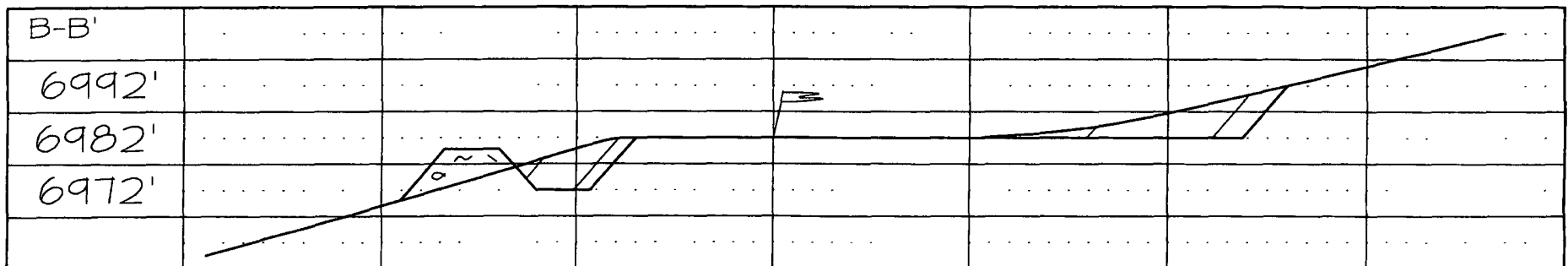
HORIZONTAL SCALE 1"=40'

C/L

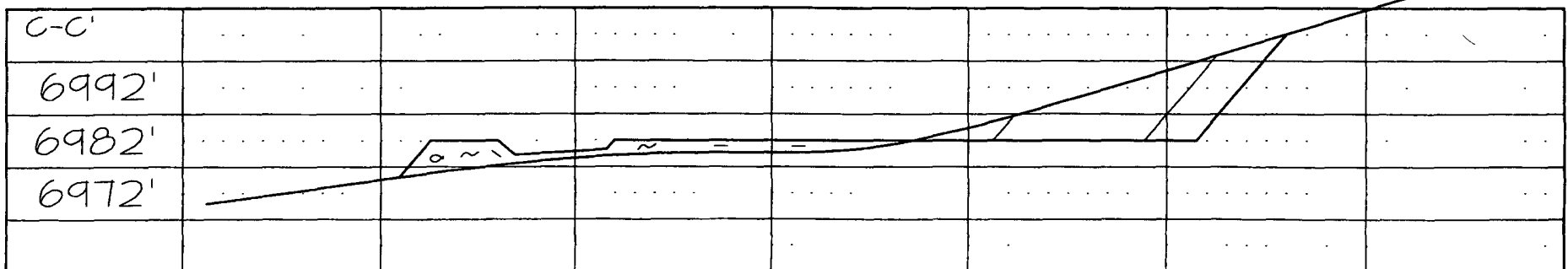
VERTICAL SCALE 1"=30'



C/L



C/L



NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.