

RECEIVED

MAY 14 2008

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOC D FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOC D PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.	5. Lease Number SF-079266 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe RCVD JUN 25 '08
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name 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 Vaughn 9. Well Number #30N
4. Location of Well Surf: Unit L(NWSW), 1830' FSL & 840' FWL Bottomhole: Unit N (SESW), 900' FSL & 1805' FWL Surf: Latitude 36.455132° N Longitude 107.479290° W Bottomhole: Latitude 36.452603° N Longitude 107.475956° W		10. Field, Pool, Wildcat Basin Dakota/Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 28, T26N, R6W API # 30-039-30533
14. Distance in Miles from Nearest Town 46 miles/Blanco		12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 840'		
16. Acres in Lease 2,560.00		17. Acres Assigned to Well MV/DK 320.00 (W/2)
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 967' from Vaughn #30		
19. Proposed Depth 7223'	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.) 6407' GR		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: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)		<u>5/14/08</u> Date

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

H₂S POTENTIAL EXIST JUL 02 2008

NMOC D

Hold C104
for Directional Survey
and "As Drilled" plat

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DISTRICT I
1635 N. French Dr., Hobbs, N.M. 88340

DISTRICT II
1301 West 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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30533		*Pool Code 71599/72319		*Pool Name BASIN DAKOTA/ BLANCO MESAVERDE	
*Property Code 7623		*Property Name VAUGHN		*Well Number 30N	
*OGRID No. 14538		*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		*Elevation 6407'	

10 Surface Location									
UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
L	28	28-N	6-W		1830'	SOUTH	840'	WEST	RIO ARriba

11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
N	28	28-N	6-W		900'	SOUTH	1805'	WEST	RIO ARriba
*Dedicated Acres DK 320 ACRES W 1/2 MV 320 ACRES W 1/2		*Section or 1/4		*Consolidation Code		*Order No.			

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	
SURFACE LAT: 36°27'30.7" N. LONG: 107°28'7.1" W. NAD 1987 LAT: 36.458133°N. LONG: 107.470280°W. NAD 1983		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 undivided mineral interest in the land including the proposed bottom hole location or has a right to drill the 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. <i>Crystal Tafoya</i> 5/14/08 Signature Crystal Tafoya 5-14-08 Printed Name	
28		18 SURVEYOR CERTIFICATION	
USA SF-079286 840' 1830' 1805' 900' N 89° 24' 01" E 2833.63' BOTTOM HOLE LAT: 36°27'15.6" N. LONG: 107°28'52.1" W. NAD 1987 LAT: 36.458203°N. LONG: 107.478956°W. NAD 1983		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. 1-16-08 Date of Survey Signature NEW MEXICO 15703 LICENSED PROFESSIONAL SURVEYOR Certificate Number 15703	

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON RESOURCES		
WAN.RFE.PDO7.CL		
VAUGHN # 30 N	DATE	1/16/2008
WELL NAME		
WELL NAME		

COORDINATES

COUNTY

SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
L 28	26 N	6 W	36 27.3073 N	107.28.7212 W

RIO ARRIBA

RECTIFIER
SOLAR
GROUND BED
240 V METER POLE
480 V METER POLE
D C CABLES
A C CABLES
PRIMARY POWER
DISTANCE TO POWER
UNDERGROUND
PUMPJACK
WATER PUMP
COMPRESSOR
RTU
SAMS
TANKS

SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
single	x			
	x			
# 8	150 ft			
			Jemez	
			1 mile	

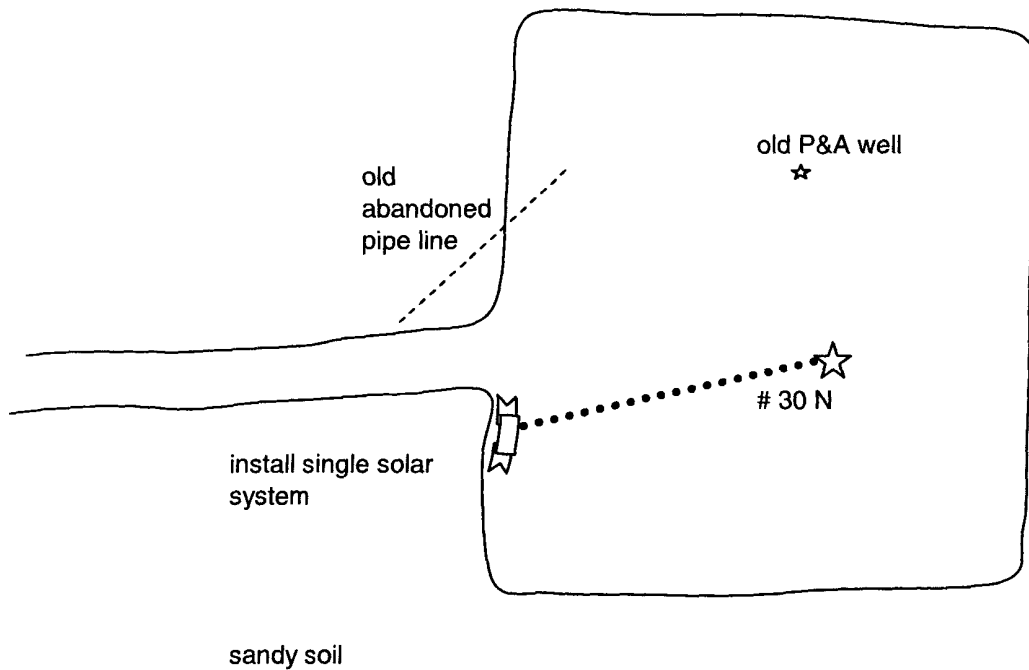
COMMENTS

install single solar system - sandy soil -

WELL NAME	VAUGHN 30 N
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no well or pipe line within 1000 ft
1 phase power 1 mile - Jemez



TANK	SEP OR DEHY	SOLAR	METER POLE	PUMP JACK	GND/BED	EXISTING CABLE
RECT	PIT	WELL	proposed solar/gb	PROPOSED CABLE	POWER LINE	CONOCO PL
			FOREIGN PL			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

VAUGHN 30N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7233				AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 711		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		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
<i>Directional</i>							
Location: Surface		Datum Code: NAD 27					
Latitude: 36.455121	Longitude: -107.478686	X:	Y:	Section: 28		Range: 006W	
Footage X: 840 FWL	Footage Y: 1830 FSL	Elevation: 6407	(FT)	Township: 026N			
Tolerance:		<i>Directional</i>					
Location: Bottom Hole		Datum Code: NAD 27					
Latitude: 36.452592	Longitude: -107.475352	X:	Y:	Section: 28		Range: 006W	
Footage X: 1805 FWL	Footage Y: 900 FSL	Elevation:	(FT)	Township: 026N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6422		Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	215	6207	☐			12-1/4" hole. 9-5/8", 32.3 ppf, H-40, STC casing. Cement with 170 cubic ft. Circulate cement to surface.	
OJO ALAMO	1948	4474	☐				
KIRTLAND	2111	4311	☐				
FRUITLAND	2192	4230	☐			Possible Gas	
PICTURED CLIFFS	2635	3787	☐				
LEWIS	2712	3710	☐				
HUERFANITO BENTONITE	3027	3395	☐				
CHACRA	3478	2944	☐				
UPPER CLIFF HOUSE	4245	2177	☐				
MENELEE	4313	2109	☐				
Intermediate Casing	4463 TVD	4712 TMD	1710	☐		8-3/4" hole. 7", 23 ppf, J-55, LTC casing. Cement with 1061 cubic ft. Circulate cement to surface.	
POINT LOOKOUT	4841	1581	☐	650		GAS	
MANCOS	5168	1254	☐				
UPPER GALLUP	5905	517	☐				
GREENHORN	6768	-346	☐				
GRANEROS	6823	-401	☐				
TWO WELLS	6880	-458	☐	1600		Gas	
PAGUATE	6928	-506	☐				
CUBERO	6966	-544	☐				
LOWER CUBERO	7007	-585	☐				
OAK CANYON	7025	-603	☐				
ENCINAL	7063	-641	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

VAUGHN 30N

DEVELOPMENT

BURRO CANYON	7145	-723	☐	
MORRISON	7223	-801	☐	TD - Top/Morrison
Total Depth	7223	-801	☐	6-1/4" hole. 4-1/2", 11.6 ppf, J-55/L-80 LTC, casing. Cement with 380 cubic ft. Circulate cement a minimum of 100' inside the previous string.

Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	Vaughn 27	26N-6W28 NE SW SW
Intermediate	Vaughn 16	26N-6W28 SE NW SW
Production	Vaughn 31E	26N-6W29 SW NE SE
Production	Vaughn 30	26N-6W28 NW NE SW
Production	Vaughn 15E	26N-6W28 NE SE SE

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
	Cased Hole GR / CBL

Mudlog from 100' above Greenhorn to TD - mudlogger will call TD

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

Comments:

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Vaugn #30N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6422.0ft (Generic Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6422.0ft (Generic Rig)
Site:	Other Named Wells	North Reference:	True
Well:	Vaugn #30N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal		
Design:	Planned		

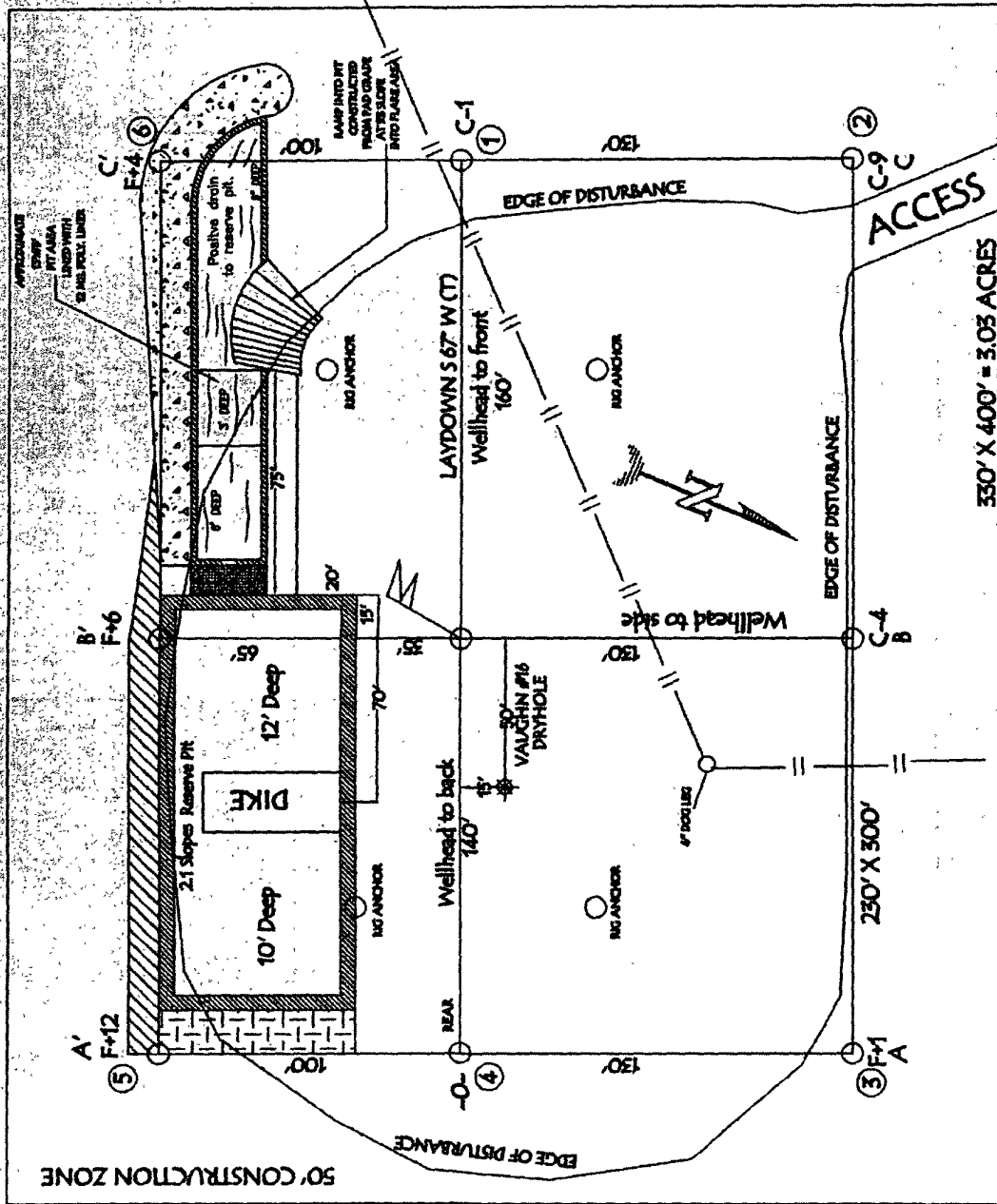
Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,021.0	1,948.0	Ojo Alamo		0.00		
2,198.4	2,111.0	Kirtland		0.00		
2,286.5	2,192.0	Fruitland		0.00		
2,768.7	2,635.0	Pictured Cliffs		0.00		
2,852.5	2,712.0	Lewis		0.00		
3,195.4	3,027.0	Huerf. Bent.		0.00		
3,686.3	3,478.0	Chacra		0.00		
4,494.4	4,245.0	Upper Cliffhouse		0.00		
4,562.7	4,313.0	Menefee		0.00		
5,090.8	4,841.0	Pt. Lookout		0.00		
5,417.8	5,168.0	Mancos Shale		0.00		
6,154.8	5,905.0	Gallup		0.00		
7,017.8	6,768.0	Greenhorn		0.00		
7,072.8	6,823.0	Graneros		0.00		
7,129.8	6,880.0	Two Wells		0.00		
7,177.8	6,928.0	Paguate		0.00		
7,215.8	6,966.0	Upper Cubero		0.00		
7,256.8	7,007.0	Lower Cubero		0.00		
7,274.8	7,025.0	Oak Canyon		0.00		
7,312.8	7,063.0	Encinal		0.00		
7,394.8	7,145.0	Burro Canyon		0.00		
7,472.8	7,223.0	Morrison		0.00		

BURLINGTON RESOURCES OIL & GAS COMPANY LP

VAUGHN #30N, 1830' FSL & 840' FWL

SECTION 28, T-26-N, R-6-W, NMPM, RIO ARriba COUNTY, NM

GROUND ELEVATION: 6407', DATE: SEPTEMBER 25, 2007



RESERVE PIT DIKE, TO BE 8' ABOVE DEEP SIDE (COVERFLOW - 3' 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.

LATITUDE: 36° 27.3073'N LONGITUDE: 107° 28.7212'W NAD27

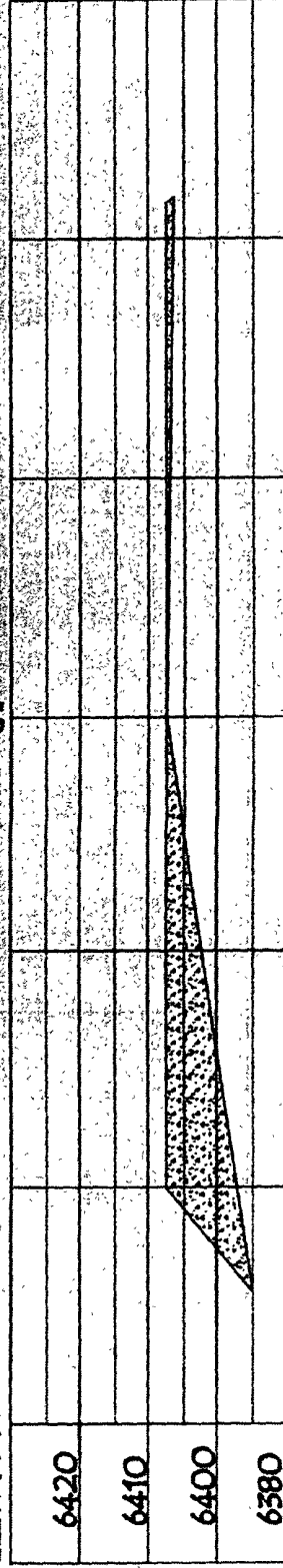
BURLINGTON RESOURCES OIL & GAS COMPANY LP

VAUGHN #30N, 1830' FSL & 840' FWL

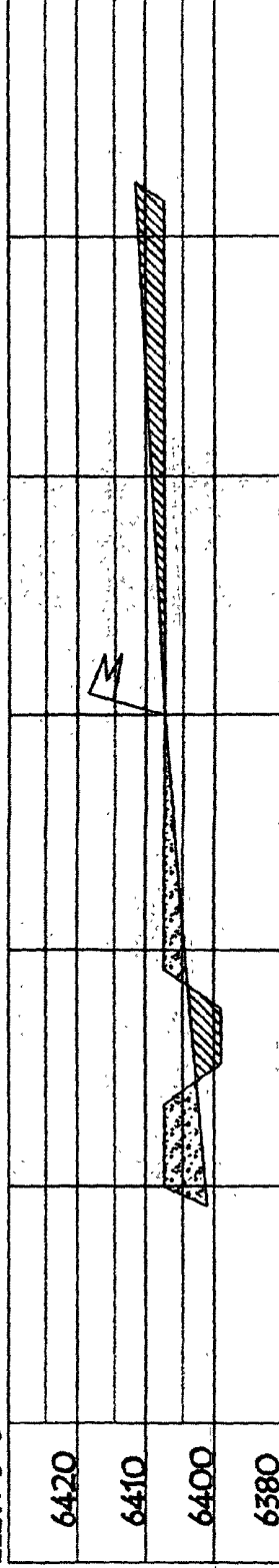
SECTION 28, T-26-N, R-6-W, NMPM, RIO ARriba COUNTY, NM

GROUND ELEVATION: 6407', DATE: SEPTEMBER 25, 2007

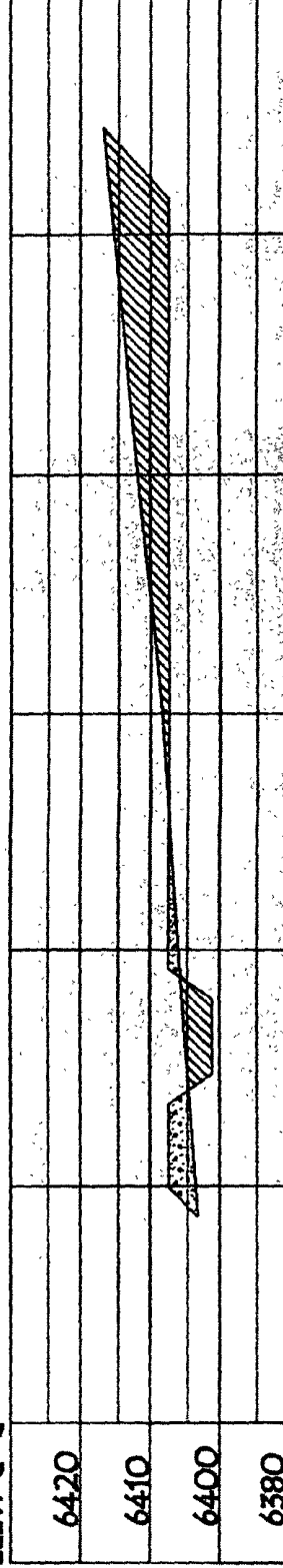
ELEV. A'-A



ELEV. B'-B



ELEV. C'-C



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.

Directions from the Intersection of
Hwy 550 & Hwy 64 in Bloomfield, NM

To:

Burlington Resources Oil & Gas Company LP

VAUGHN #30N

1830' FSL & 840' FWL,

Section 28, T26N, R6W, N.M.P.M., Rio Arriba County,

New Mexico

LAT. 36.455132° N NAD. 83

LONG. 107.479290° W NAD. 83

From the Intersection of Hwy 550 & Hwy 64 in
Bloomfield, NM

Take Hwy 550 (south) for 1.0 miles to CR 4900
turn left (easterly) on CR 4900 15.0 miles to five mile bridge,
stay right @ intersection (southeasterly) for 3.2 miles,
across 10 mile bridge continue (southeasterly) 18.2 miles,
to Old Largo Canyon School, turn right (southeasterly) 2.5,
along Canyon Largo Wash 2.5 miles,
turn left (easterly) across Largo Wash 2.3 miles,
turn left (northerly) across tapico wash
for 0.5 miles, continue (westerly) for 1.0 miles,
turn left (southerly) for 0.1 miles,
turn left (southeasterly) along 2-track for 0.2 miles
to new location, twinned on abandoned
dry hole Vaughn #16.