

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAY 11 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-079937 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 JUN 8 '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 Turner Hughes 9. Well Number 11S	
4. Location of Well Surface: Unit F (SENW), 1580' FNL & 1550' FWL Bottomhole: Unit C (NENW), 710' FNL & 1550' FWL Surface: Latitude: 36.592477° N (NAD83) Longitude: 107.779409° W Bottomhole: Latitude: 36.594869° N (NAD83) Longitude: 107.779296° W	10. Field, Pool, Wildcat Basin FC / Blanco PC South 11. Sec., Twn, Rge, Mer. (NMPM) F Sec. 10, T27N, R9W API # 30-045-35153	
14. Distance in Miles from Nearest Town 27 miles / Bloomfield	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'		
16. Acres in Lease 640.00	17. Acres Assigned to Well 320.00 N/2 (FC) & 160.00 NW/4 (PC)	
18. Distance from Proposed Location to Nearest Well, Drtg, Compl, or Applied for on this Lease 69' from Turner Hughes 17A		
19. Proposed Depth 2538' 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.) 6273' 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: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date <u>5/11/2010</u>	

PERMIT NO.

APPROVAL DATE

APPROVED BY D. Manteola

TITLE AFM

DATE 6/7/2010

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 2

Bond Numbers NMB-000015 and NMB-000089

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS

Hold C104

for Directional Survey
and "As Drilled" plat

NMOCD

JUN 11 2010

10

24 HRS.
NOTIFY AFTER 24 HRS.
PRIOR TO CASING & CEMENT
ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATION ON FEDERAL AND INDIAN LANDS

RECEIVED

MAY 11 2010

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

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

¹ API Number 30-045- 38153		² Pool Code 71629 / 72439		³ Pool Name BASIN FRUITLAND COAL / BLANCO PICTURED CLIFF; <i>500' + 7'</i>	
⁴ Property Code 7614		⁵ Property Name TURNER HUGHES			⁶ Well Number 11S
⁷ OGRID No. 14538		⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			⁹ Elevation 6273'

¹⁰ Surface Location

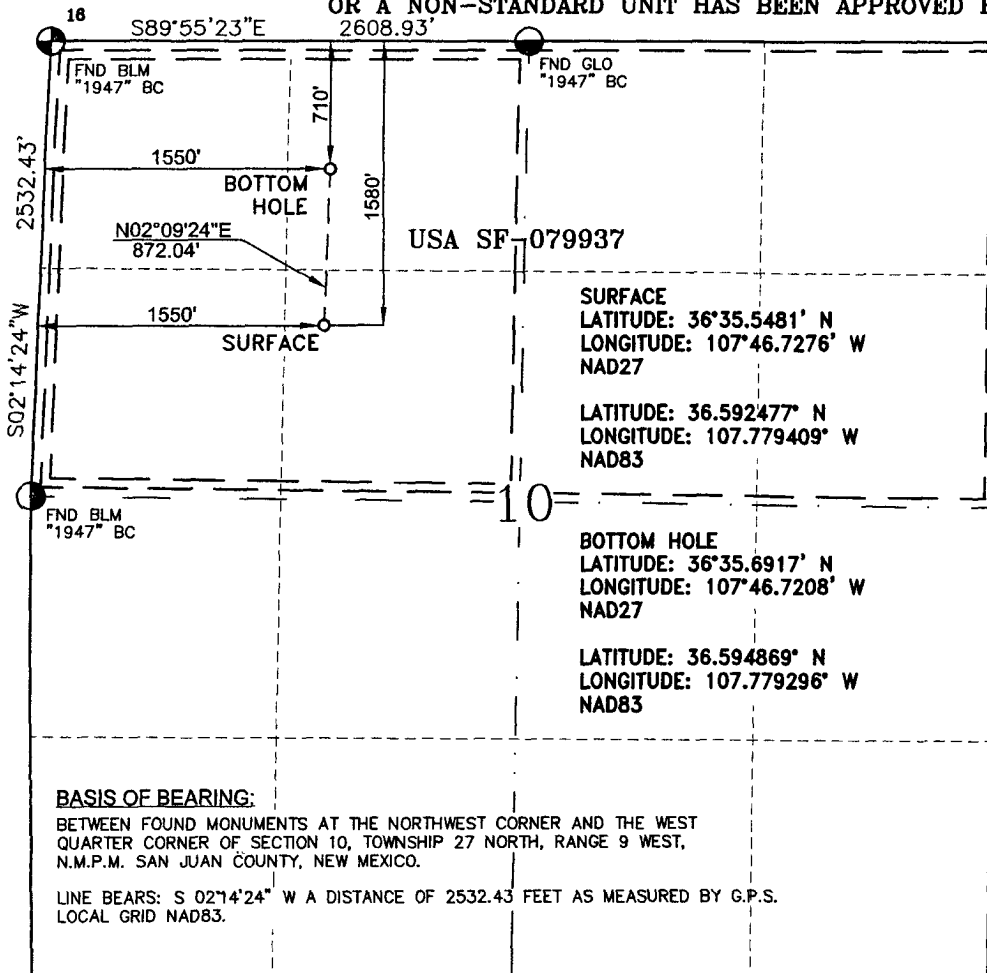
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	10	27-N	9-W		1580	NORTH	1550	WEST	SAN JUAN

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
C	10	27-N	9-W		710	NORTH	1550	WEST	SAN JUAN

¹² Dedicated Acres FC 320.00 ACRES N/2 PC 160.00 ACRES NW/4		¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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



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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Crystal Tafoya 11/13/09
Signature

Crystal Tafoya 11/13/09
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.

November 5, 2009
Date of Survey

Signature and Seal of

GLEN W. RUSSELL
Certificate Number

15703



PROJECT PROPOSAL - New Drill / Sidetrack

TURNER HUGHES 11S

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9113		AFE \$: 0.00	
Field Name: SAN JUAN		Rig: XXX 2010 Holding		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	Phone:
Geoscientist:		Phone:		Prod. Engineer:	Phone:
Res. Engineer:		Phone:		Proj. Field Lead:	Phone:
Primary Objective (Zones):					
Zone	Zone Name				
JCV	BASIN FRUITLAND COAL (GAS)				
UPL	BLANCO PICTURED CLIFFS				
Location: Surface					
Datum Code: NAD 27		Directional			
Latitude: 36.592469	Longitude: -107.778794	X:	Y:	Section: 10	Range: 009W
Footage X: 1550 FWL	Footage Y: 1580 FNL	Elevation: 6273	(FT)	Township: 027N	
Tolerance:					
Location: Bottom Hole					
Datum Code: NAD 27		Directional			
Latitude: 36.594861	Longitude: -107.778681	X:	Y:	Section: 10	Range: 009W
Footage X: 1550 FWL	Footage Y: 710 FNL	Elevation:	(FT)	Township: 027N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2011		Completion Date:	Date In Operation:
Formation Data: Assume KB = 6288 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	120	6168	☐		
OJO ALAMO	1384	4904	☐		
KIRTLAND	1505	4783	☐		
FRUITLAND	1917	4371	☐		Gas
FRUITLAND COAL	2119	4169	☐		
PICTURED CLIFFS	2338	3950	☐	302	101
Total Depth	2538	3750	☐		
Remarks 8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface. Gas; TD - 200' below T/PCCF 6-1/4" hole. 4-1/2" 11.6 ppf, J-55, LTC casing. Cement with 370 cuft. Circulate cement to surface.					
Reference Wells:					
Reference Type	Well Name	Comments			
Production	Bunny Etal 1E	27N 9W 10 NE SW SW			
Production	H K Riddle Gas Unit 1	27N 9W 9 NE NE			
Production	Turner Hughes 17	27N 9W 10 SE NE			
Production	Hughes Turner 15M	27N 9W 3 NE SW SE			
Production	Hughes 10B	27N 9W 3 SE NW SW			

PROJECT PROPOSAL - New Drill / Sidetrack

TURNER HUGHES 11S

DEVELOPMENT

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

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
----------	-------	-----------	---------	----------------	---------

ConocoPhillips or its affiliates Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Turner Hughes #11S - Plan 1
Company:	ConocoPhillips SJBU	TVD Reference:	KB @ 6289.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	KB @ 6289.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Turner Hughes #11S - Plan 1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Turner Hughes #11S		
Design:	Plan #1		

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
Production Depth - plan hits target center - Point	0.00	0.00	2,538.0	871.3	33.3	2,035,784.52	516,043.91	36° 35' 41.502 N	107° 46' 43.248 W
Depth to be vertical - plan hits target center - Point	0.00	0.00	2,300.0	871.3	33.3	2,035,784.55	516,043.88	36° 35' 41.502 N	107° 46' 43.248 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
120.0	120.0	Surface Casing	0	0
2,763.6	2,538.0	Production Casing	0	0

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,534.8	1,384.0	Ojo Alamo		0.00	
1,682.8	1,505.0	Kirtland		0.00	
2,137.8	1,917.0	Fruitland		0.00	
2,563.6	2,338.0	Picture Cliffs		0.00	
2,344.1	2,119.0	Fruitland Coal		0.00	

REFERENCE INFORMATION

KB @ 6289.0ft (Original Well Elev)
Ground Elevation 6273.0
Reference Lat: 36° 35' 32.886 N
Reference Long: 107° 46' 43.656 W

Project: San Juan Basin - New Mexico Wells

Site: Other Named Wells

Well: Turner Hughes #11S - Plan 1

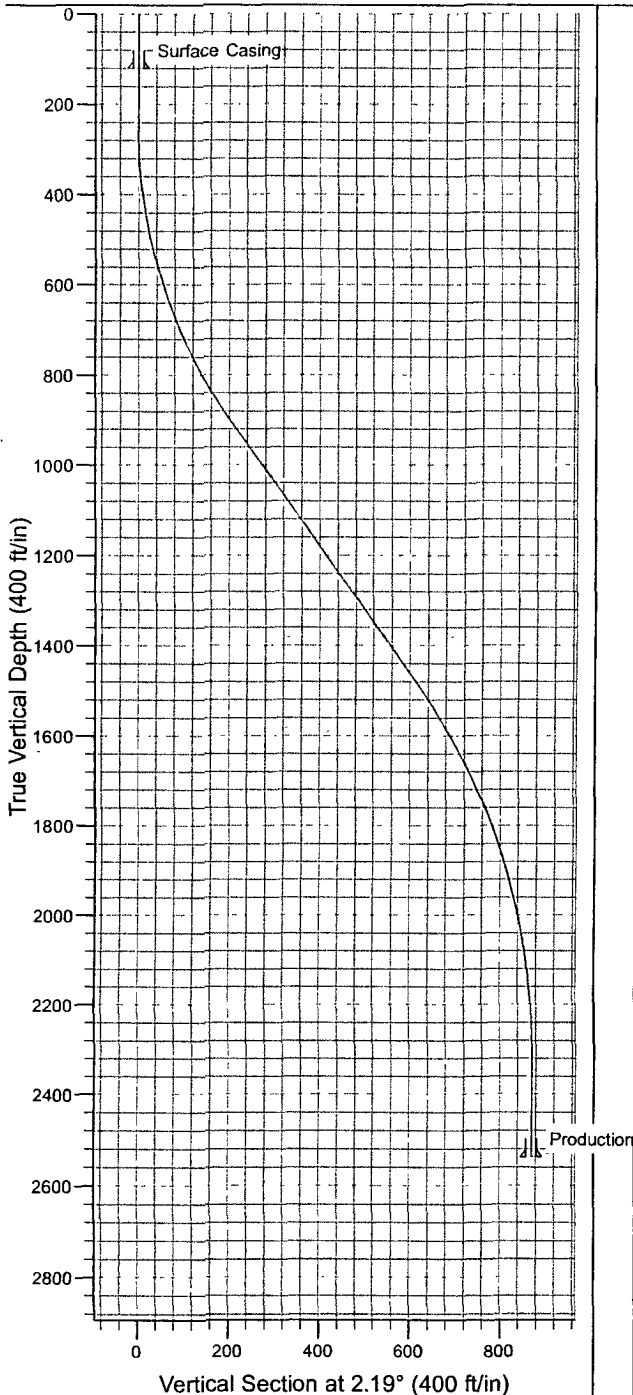
Wellbore: Turner Hughes #11S

Design: Plan #1

ConocoPhillips

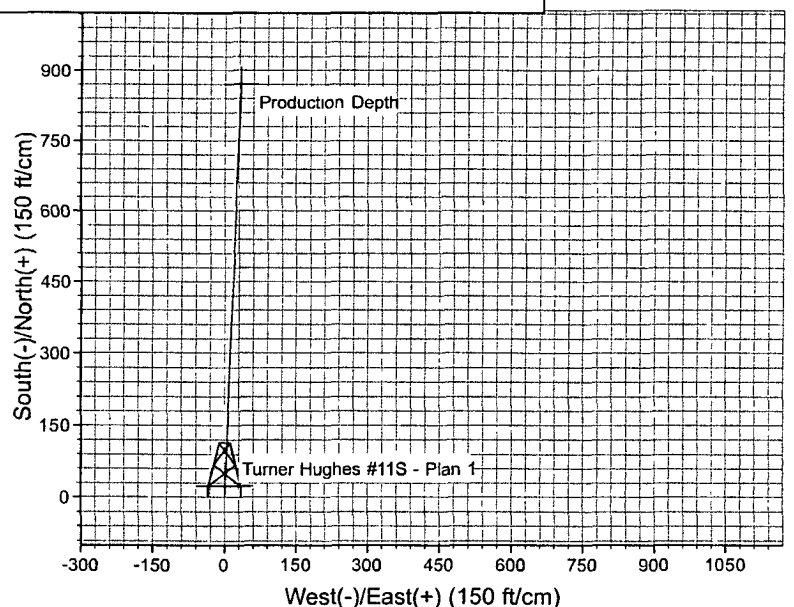
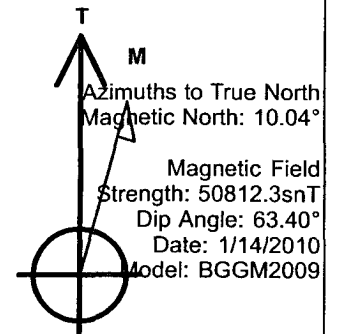
SECTION DETAILS

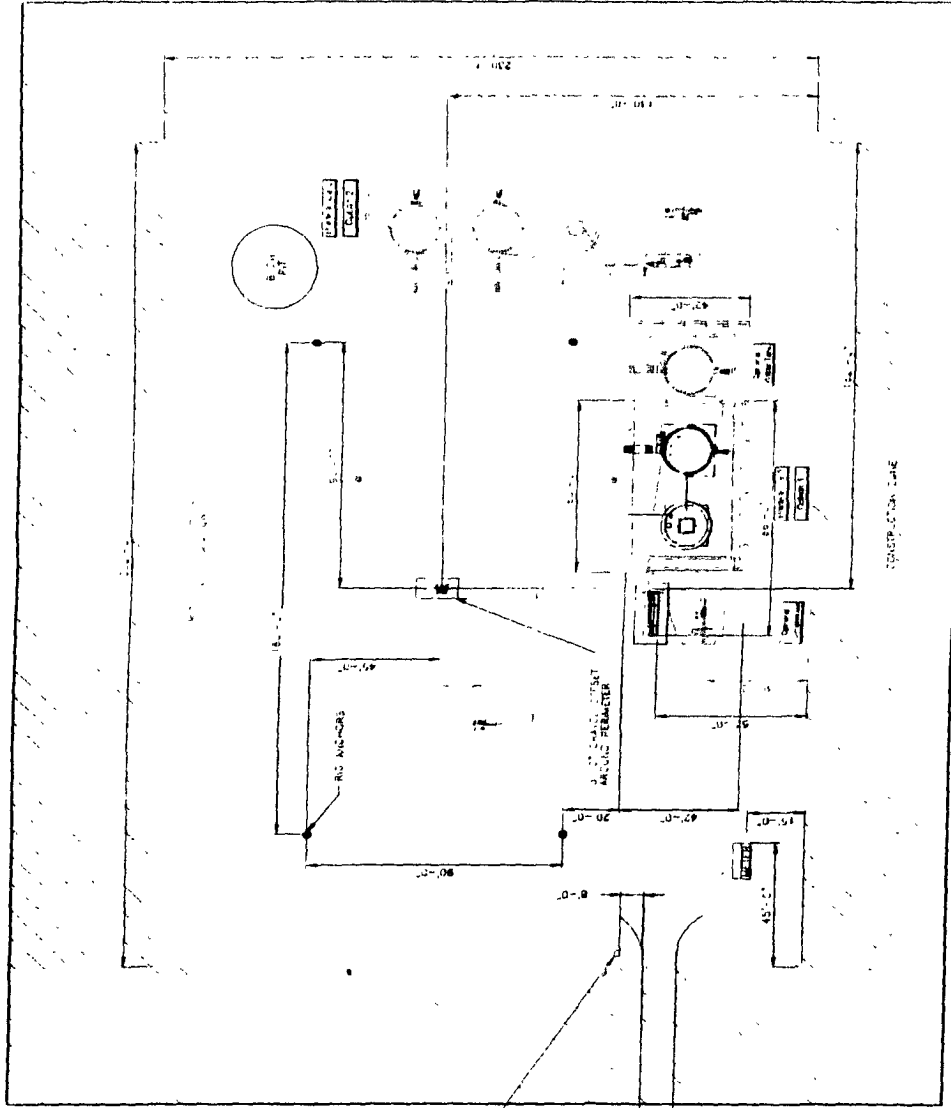
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.0	
3	957.8	35.39	2.19	913.7	211.6	8.1	5.00	2.19	211.7	
4	1640.8	35.39	2.19	1470.4	606.8	23.2	0.00	0.00	607.3	
5	2525.6	0.00	0.00	2300.0	871.3	33.3	4.00	180.00	872.0	Depth to be vertical
6	2763.6	0.00	0.00	2538.0	871.3	33.3	0.00	0.00	872.0	Production Depth



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1384.0	1534.8	Ojo Alamo
1505.0	1682.8	Kirtland
1917.0	2137.8	Fruitland
2119.0	2344.1	Fruitland Coal
2338.0	2563.6	Picture Cliffs





FROM CH. 1
SALES LINE
PIT LINE
OK 116

AS SHOWN ON THE PLAN, THE LOCATION OF THE ACCESS ROAD IS AS SHOWN.

CenocoPhillips										FACILITY NAME - SEE PLAN	
SAN JUAN BUSINESS UNIT										DATE	
DRAWN BY										CHECKED BY	
APPROVED BY										DATE	
PROJECT										REASON	
REVISIONS										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON										DATE	
BY										REASON	
DATE										BY	
REASON											

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

To:

Burlington Resources Oil & Gas Company LP

TURNER HUGHES #11S

1580' FNL & 1550' FWL,

Section 10, T27N, R9W, N.M.P.M., San Juan County,

New Mexico

Latitude: 36° 35' 32.916" N

Longitude: 107° 46' 45.872" W

Nad 1983

From the Intersection of Hwy 550 and Hwy 64,
Take Hwy 550 (south) for 1.0 miles to CR 4990,
Turn left (east) on CR 4990 (Sullivan Road) for 15.0 miles,
To five mile bridge,
Stay right @ y intersection (southeasterly) 2.8 miles,
Turn right (southerly) along west side of Blanco Wash 5.1 miles,
Turn right (westerly) for 0.5 miles,
Turn right (northwesterly) 0.9 miles,
stay left (westerly) 1.1 miles,
continue (southerly) 0.3 miles,
Turn left (southeasterly) 0.25 miles,
To the newly staked location twinned on existing well pad,
TURNER HUGHES #17A.