

Schlumberger

Anadrill

MDC Operations
4607 South County Rd. #1310
Odessa, Texas 77477
Phone (915) 563-3057
Fax (915) 563-3059

April 4, 1998

Bureau of Land Management
414 W Taylor
P.O. Box 1960
Hobbs, New Mexico 88240

Re: Burlington Resources Oil & Gas Co.
Pitchfork 4 Federal #2
Sec. 4, T-25-S, R-34-E
Lea County, New Mexico
API # 30-025-03331

Enclosed, please find the original and one copy of the survey performed on the referenced well by Anadrill, a division of Schlumberger Technology Corporation. Other information required by your office is as follows:

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Fred Sanchez MWD I	#01	12735' to 13915'	3/29/98 - 4/15/98	MWD/D&I

A certified plat on which the bottom hole is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,



Tom Follis
MWD Coordinator

Cc: Burlington Resources Oil & Gas Co.

Enclosures: 2

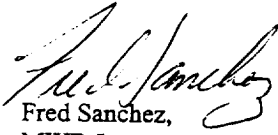
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State of Texas
County of Midland

I, Fred Sanchez, certify that; I am employed by Anadrill, a division of Schlumberger Technology Corporation; that I did on the days of 3/29/98 through 4/15/98 conduct or supervise the taking of MWD surveys from a depth of 12735 feet to a depth of 13915 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Anadrill, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Burlington Resources Oil & Gas Co., for the Pitchfork 4 Federal #2, API No. 30-025-03331 in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Anadrill, a division of Schlumberger Technology Corporation.


Fred Sanchez,
MWD I

Schlumberger Survey Report

For the: Burlington Resources Oil & Gas Co.
Pitchfork 4 Federal #2
Lea County, New Mexico

Magnetic Declination: 9.13 DEG

Tie In Point (TIP):

Measured Depth 12600 FT.
True Vertical Depth 12597.14 FT.
Inclination .63 DEG
Azimuth 208.1 DEG
N/S Displacement(-ve for S) -112.3 FT.
E/W Displacement(-ve for W) 72.23 FT.

Azim. From Rotary Table To Target 0 DEG

Accepted Survey Listing:

M.Depth (ft)	Int. (ft)	TVD (ft)	TargetS (ft)	Incl. (deg)	Azim (deg)	N.Disp (ft)	E.Disp (ft)	T.Disp (ft)	Clr.Ang (deg)	DLS (D/HF)
12735	135	12732.04	-108.66	4.1	27.1	-108.66	74.08	131.51	145.71	3.5
12751	16	12747.98	-107.36	5.91	17.06	-107.36	74.58	130.73	145.21	12.53
12782	31	12778.67	-103.24	10.17	18.64	-103.24	75.92	128.15	143.67	13.76
12813	31	12808.99	-97.16	13.71	18.52	-97.16	77.96	124.57	141.26	11.42
12845	32	12839.9	-89.17	16.26	11.17	-89.17	80.03	119.82	138.09	9.92
12877	32	12870.59	-80.21	16.64	5.04	-80.21	81.3	114.21	134.61	5.55
12907	30	12899.32	-71.61	16.81	5.56	-71.61	82.1	108.94	131.1	0.75
12939	32	12929.76	-61.81	19.08	6.37	-61.81	83.13	103.59	126.63	7.14
12970	31	12958.76	-50.92	22.26	5.26	-50.92	84.23	98.43	121.16	10.34
13001	31	12987.35	-38.96	23.26	2.91	-38.96	85.08	93.58	114.6	4.36
13033	32	13016.51	-25.79	25.39	2.46	-25.79	85.7	89.49	106.75	6.68
13064	31	13044.56	-12.6	25.02	2.49	-12.6	86.27	87.19	98.31	1.19
13096	32	13073.68	0.66	23.99	2.41	0.66	86.84	86.84	89.56	3.22
13127	31	13101.9	13.48	24.9	1.29	13.48	87.25	88.29	81.22	3.29
13159	32	13130.89	27.03	25.2	358.58	27.03	87.23	91.32	72.79	3.71
13190	31	13158.99	40.11	24.76	357.8	40.11	86.82	95.64	65.2	1.77
13222	32	13188.07	53.46	24.58	357.81	53.46	86.31	101.52	58.23	0.56
13253	31	13215.97	66.97	27.1	0.36	66.97	86.11	109.08	52.13	8.88
13285	32	13244.32	81.8	28.13	1.64	81.8	86.37	118.96	46.56	3.71
13316	31	13271.8	96.13	26.97	2.14	96.13	86.84	129.55	42.09	3.82
13348	32	13300.39	110.49	26.4	2.1	110.49	87.37	140.86	38.34	1.78
13379	31	13328.01	124.55	27.59	357.2	124.55	87.27	152.08	35.02	8.13
13411	32	13356.36	139.33	27.67	353.17	139.33	86.02	163.75	31.69	5.84
13443	32	13384.85	153.81	26.52	353.64	153.81	84.34	175.42	28.74	3.66
13474	31	13412.67	167.4	25.81	354.3	167.4	82.9	186.81	26.35	2.48
13506	32	13441.2	181.83	28.02	355.84	181.83	81.66	199.33	24.19	7.24
13537	31	13468.52	196.45	28.41	356.6	196.45	80.69	212.38	22.33	1.71
13569	32	13496.71	211.56	28.05	356.07	211.56	79.72	226.08	20.65	1.37
13600	31	13524.1	226.04	27.77	356.34	226.04	78.76	239.37	19.21	0.99
13664	64	13580.88	255.51	27.2	355.77	255.51	76.73	266.78	16.72	0.98
13726	62	13636.31	283.17	26.03	353.87	283.17	74.23	292.74	14.69	2.33
13789	63	13693.22	309.98	24.76	351.98	309.98	70.91	317.99	12.89	2.39
13852	63	13750.72	335.38	23.46	349.6	335.38	66.81	341.97	11.27	2.58

M.Depth (ft)	Int. (ft)	TVD (ft)	TargetS (ft)	Incl. (deg)	Azim (deg)	N.Disp (ft)	E.Disp (ft)	T.Disp (ft)	Clr.Ang (deg)	DLS (D/HF)
13915	63	13808.61	359.78	22.99	348.62	359.78	62.12	365.1	9.8	0.97
Projection:										
13955	40	13845.43	375.1	22.99	348.62	375.1	59.04	379.71	8.94	0

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-107

Revised October 18, 1994

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 S. 1st Street, Artesia, NM 88210-2834

District III
Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Instructions on back
Submit to Appropriate District Office:
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-03331	2 Pool Code 76560	3 Pool Name UNDESIGNATED FAIRVIEW MILLS WOLFCAMP GAS
4 Property Code 014332	5 Property Name PITCHFORK "4" FEDERAL	6 Well Number 2
7 OGRID No. 25485	8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	9 Elevation 3361'

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
K	4	25S	34E		1830'	SOUTH	1980'	WEST	Lea

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
K	4	25S	34E		2206'	SOUTH	2052'	WEST	Lea

12 Dedicated Acres 320	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

Robert E. Landreth Oil & Gas Exploration

4

320 ACRE
HORIZONTAL PROJECT AREA BOUNDARY
W/PRODUCING WINDOW

MINIMUM SETBACK DISTANCE BY FIELD RULES
(660' Side Boundary & 1650' End Boundary),
SWR III

SL: SURFACE LOCATION
PKOP: PROPOSED KICKOFF POINT
PTL: PROPOSED TERMINUS LOCATION

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature

MARIA L. PEREZ

Printed Name

REGULATORY REPRESENTATIVE

Title

1/13/98

Date

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.

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

Burlington Resources Oil & Gas Co.

2052'

1980'

2052'

1650'

PTL

#2

PKOP

PROPOSED
UNORTHODOX
BOTTOM HOLE
LOCATION

Bottom Hole Location

(Projected)

379.7' Displacement

8.9° Azimuth