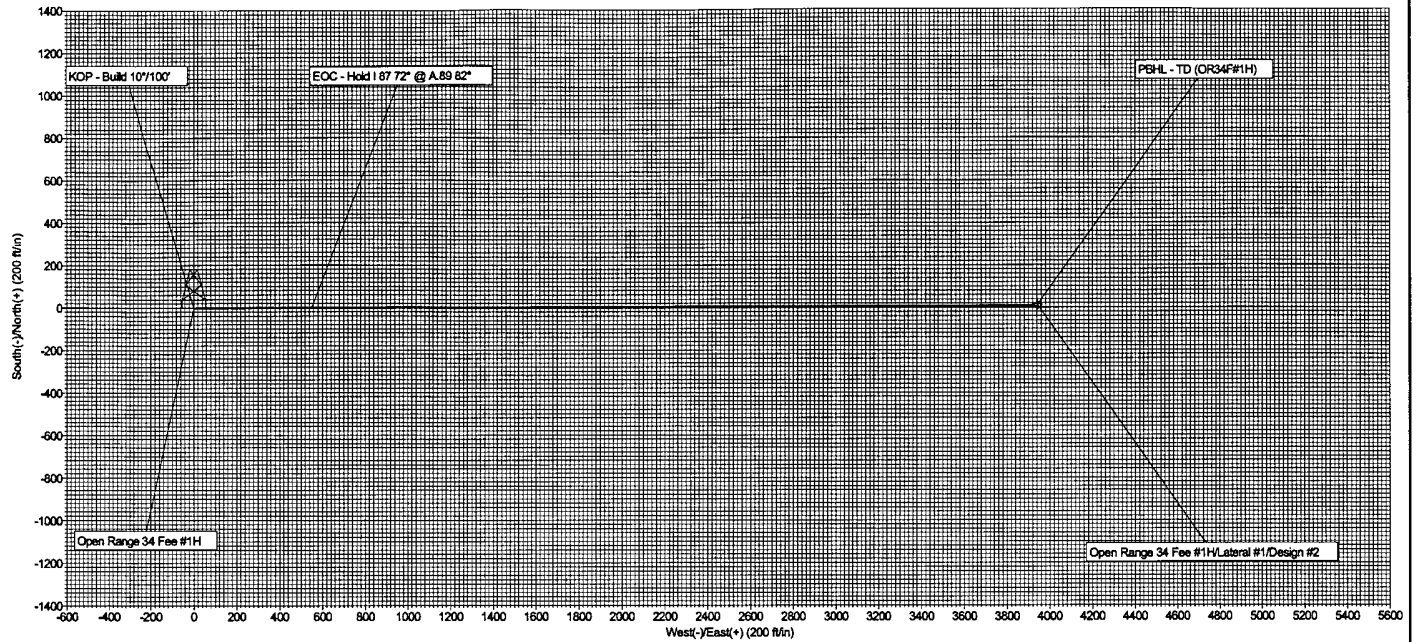




Project: Chaves Co, New Mexico (Nad-83)
 Site: Open Range 34 Fee #1H
 Well: Open Range 34 Fee #1H
 Wellbore: Lateral #1
 Design: Design #2



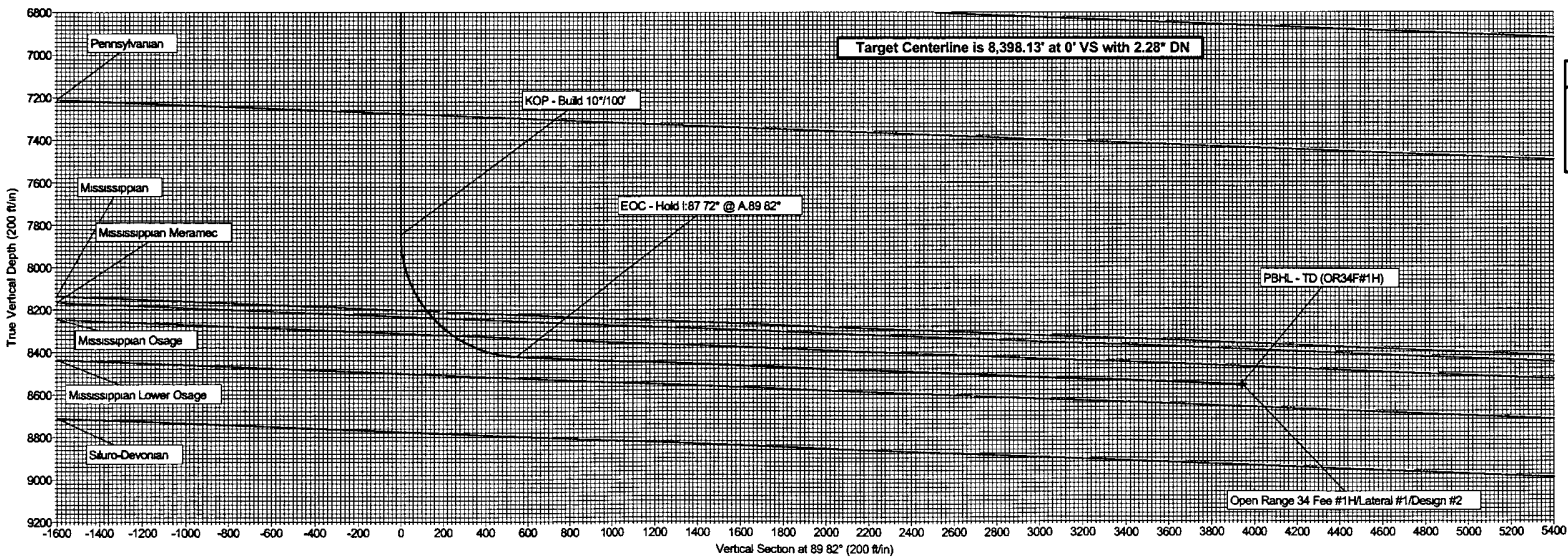
Plan, Design #2 (Open Range 34 Fee #1H/Lateral #1)	
Created By: Mike Starkey	Date: 10:53, July 21 2010
Checked: _____	Date: _____
Reviewed: _____	Date: _____
Approved: _____	Date: _____

SECTION DETAILS										
Sec	MD	Inc	Az	TVD	+N/S	+E/W	D/Leg	T/Face	V/Sec	Target
1	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
2	7847 47	0 00	0 00	7847 47	0 00	0 00	0 00	0 00	0 00	
3	8724 67	87 72	89 82	8419 97	1 68	550 16	10 00	89 82	550 16	
4	12118 72	87 72	89 82	8555 00	12 04	3941.51	0 00	0 00	3941 53	PBHL - TD (OR34F#1H)

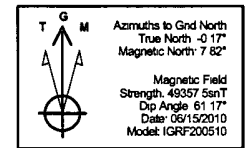
ANNOTATIONS		
TVD	MD	Annotation
7847 53	7847 53	KOP - Build 10°/100'
8419 96	8724 73	EOC - Hold 1.87 72° @ A.89.82°

WELL DETAILS Open Range 34 Fee #1H					
Ground Level: 3790 00					
WELL @ 3809 00R (Original Well Elev)					
+N/S	+E/W	Northing	Easting	Latitude	Longitude
0 00	0 00	846530 09	635611 99	33° 19' 36 012 N	104° 1' 28 864 W

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)							
Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
PBHL - TD (OR34F#1H)	8555 00	12 04	3941 51	846542 13	639553 49	33° 19' 36 013 N	104° 0' 42 409 W



PROJECT DETAILS: Chaves Co, New Mexico (Nad-83)	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Eastern Zone
System Datum:	Mean Sea Level



Devon Energy
 Open Range 34 Fee #1H - Design #2

Chaves Co, New Mexico (Nad-83)
 Open Range 34 Fee #1H

Measured Dogleg Depth Rate (ft) (°/100ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00
0.00	0.00	0.00	7847.47	0.00 N	0.00 E	0.00
0.00	5.25	89.82	7899.93	0.01 N	2.41 E	2.41
10.00	15.25	89.82	7998.20	0.06 N	20.18 E	20.18
10.00	25.25	89.82	8091.90	0.17 N	54.76 E	54.76
10.00	35.25	89.82	8178.17	0.32 N	105.07 E	105.07
10.00	45.25	89.82	8254.40	0.52 N	169.61 E	169.61
10.00	55.25	89.82	8318.26	0.75 N	246.40 E	246.40
10.00	65.25	89.82	8367.81	1.02 N	333.11 E	333.11
10.00	75.25	89.82	8401.55	1.30 N	427.11 E	427.11
10.00	85.25	89.82	8418.46	1.61 N	525.54 E	525.54
10.00	87.72	89.82	8419.97	1.68 N	550.16 E	550.16
10.00	87.72	89.82	8422.97	1.91 N	625.43 E	625.43
0.00	87.72	89.82	8426.95	2.22 N	725.35 E	725.36
0.00	87.72	89.82	8430.93	2.52 N	825.27 E	825.28
0.00	87.72	89.82	8434.91	2.83 N	925.19 E	925.20
0.00	87.72	89.82	8438.88	3.13 N	1025.11 E	1025.12
0.00	87.72	89.82	8442.86	3.44 N	1125.03 E	1125.04
0.00	87.72	89.82	8446.84	3.74 N	1224.95 E	1224.96
0.00	87.72	89.82	8450.82	4.05 N	1324.87 E	1324.88
0.00	87.72	89.82	8454.80	4.35 N	1424.79 E	1424.80
0.00	87.72	89.82	8458.78	4.66 N	1524.71 E	1524.72
0.00	87.72	89.82	8462.75	4.96 N	1624.64 E	1624.64
0.00	87.72	89.82	8466.73	5.27 N	1724.56 E	1724.56
0.00	87.72	89.82	8470.71	5.57 N	1824.48 E	1824.48
0.00						

Open Range 34 Fee #1H_Plan #2_Report_07-21-10.txt

10100.00	87.72	89.82	8474.69	5.88 N	1924.40 E	1924.41
0.00						
10200.00	87.72	89.82	8478.67	6.18 N	2024.32 E	2024.33
0.00						
10300.00	87.72	89.82	8482.65	6.49 N	2124.24 E	2124.25
0.00						
10400.00	87.72	89.82	8486.62	6.79 N	2224.16 E	2224.17
0.00						
10500.00	87.72	89.82	8490.60	7.10 N	2324.08 E	2324.09
0.00						
10600.00	87.72	89.82	8494.58	7.40 N	2424.00 E	2424.01
0.00						
10700.00	87.72	89.82	8498.56	7.71 N	2523.92 E	2523.93
0.00						
10800.00	87.72	89.82	8502.54	8.01 N	2623.84 E	2623.85
0.00						
10900.00	87.72	89.82	8506.52	8.32 N	2723.76 E	2723.77
0.00						
11000.00	87.72	89.82	8510.49	8.63 N	2823.68 E	2823.69
0.00						
11100.00	87.72	89.82	8514.47	8.93 N	2923.60 E	2923.61
0.00						
11200.00	87.72	89.82	8518.45	9.24 N	3023.52 E	3023.53
0.00						
11300.00	87.72	89.82	8522.43	9.54 N	3123.44 E	3123.46
0.00						
11400.00	87.72	89.82	8526.41	9.85 N	3223.36 E	3223.38
0.00						
11500.00	87.72	89.82	8530.39	10.15 N	3323.28 E	3323.30
0.00						
11600.00	87.72	89.82	8534.36	10.46 N	3423.20 E	3423.22
0.00						
11700.00	87.72	89.82	8538.34	10.76 N	3523.12 E	3523.14
0.00						
11800.00	87.72	89.82	8542.32	11.07 N	3623.04 E	3623.06
0.00						
11900.00	87.72	89.82	8546.30	11.37 N	3722.96 E	3722.98
0.00						
12000.00	87.72	89.82	8550.28	11.68 N	3822.88 E	3822.90
0.00						
12100.00	87.72	89.82	8554.26	11.98 N	3922.80 E	3922.82
0.00						
12118.72	87.72	89.82	8555.00	12.04 N	3941.51 E	3941.53
0.00						

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to WELL. Northings and Eastings are relative to SITE.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Slot and calculated along an Azimuth of 89.820° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.

Central meridian is -104.333°.
Grid Convergence at Surface is 0.170°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 12118.72ft., the Bottom Hole Displacement is 3941.53ft., in the Direction of 89.820° (Grid).

JARREL SERVICES, INC.

POST OFFICE BOX 1654

PHONE 505 393-5396

HOBBS NEW MEXICO 88240

RECEIVED

MAY 9 1977

O. C. C.
ARTEBIA, OFFICE

March 16, 1977

Tom L. Ingram
P.O. Box 1757
Roswell, New Mexico 88201

Re: Mississippi gas
White Ranch, No. 1
Chaves, New Mexico
4-Point Back Pressure
Test, Build Up, Gas
Sample and Analysis

Gentlemen:

In compliance with your instructions, a 4-Point Back Pressure Test was conducted, and the absolute open flow potential was calculated to be 3215 MCF/day. The average production was recorded to be 1748.20 MCF/day, with 20.64 bbls D/day and a resulting GOR of 84700 CF Gas/bbl D.

The sample taken during the test yielded component percentages as follows:

Carbon Dioxide	0.501
Nitrogen	1.292
Methane	84.884
Ethane	7.846
Propane	3.140
Iso-Butane	0.459
N-Butane	0.922
Iso-Pentane	0.253
N-Pentane	0.289
Hexanes	0.168
Heptanes	0.246
Total	100.000
Calculated Sp. Gr.	0.6734
Calculated BTU Dry	1163
Calculated BTU Wet	1143

Very Truly Yours,


Joe A. Coleman



STATE OF NEW MEXICO

P. O. BOX 1499

PHONE (505) 393-7751

HOBBS, NEW MEXICO 88240

No. 5843
Run No. _____
Date of Run 3-21-77
Date Secured **RECEIVED**

CERTIFICATE OF ANALYSIS

MAY 9 1977

Sample from Tom L. Ingram - White Ranch #1
Jarrel Services
Box 1654
Hobbs, New Mexico 88240
Secured by _____
Time _____ Date _____
Press _____
Temp _____
Mississippi Zone

O. C. C.
ARTESIA, OFFICE

FRACTIONAL ANALYSIS

Percentage Composition

	MOLE %	LIQ. %	G.P.M.
Propane			
Butane			
Pentane			
Hexane			
Heptane			
Octane			
Nonane			
Tenane			
Undecane			
Dodecane			
Thiophene			
Other			
Total	100.000		3.768

Calc Sp Gr — 0.6734
Calc API — _____
Calc Vapor Press — _____ PSIA
Sp Gr _____
Mol Wt 19.53

LIQUID CONTENT (GAL/MCF)

Propane Calc GPM .865
Butane Calc GPM .440
Pentanes Plus GPM .370
Ethane Calc GPM 2.093
RVP Gasoline GPM _____
BTU/Cu Ft @ 14.696 PSIA
Dry Basis 1163
Wet Basis 1143
Sulfur Analysis by Titration
Gr/100 Cu Ft _____
Hydrogen Sulfide _____
Mercaptans _____
Sulfides _____
Residual Sulfur _____
Total Sulfur _____

Deane Simpson

Checked by _____

Approved by _____

Additional Data and Remarks