

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88201

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

CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

RECEIVED

JUL 26 2010

HOBBSOCD

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-005-64132	² Pool Code 87330	³ Pool Name WHITE RANCH; MISSISSIPPIAN (GAS)
⁴ Property Code 38253	⁵ Property Name GOODNIGHT "1" FEE	
⁶ Well Number 1H	⁷ Elevation 3674.7	
⁸ OGRID No. 6137	⁹ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	

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
G	1	12 S	28 E		2585	NORTH	1980	EAST	CHAVES

¹¹ Bottom Hole Location If Different From Surface

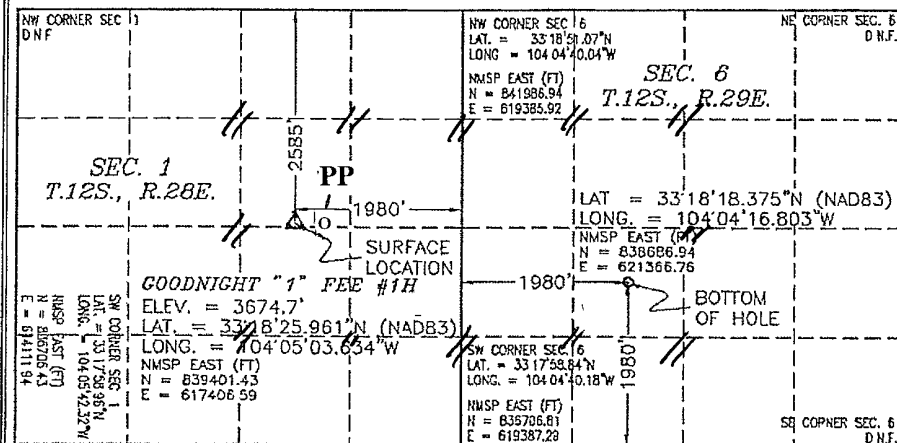
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	6	12 S	29 E		1980	SOUTH	1980	WEST	CHAVES

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
320			

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.

PENETRATION POINT: 2561' FSL & 1755' FEL; SEC 1

☐ PRODUCING AREA ☒ PROJECT AREA

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.

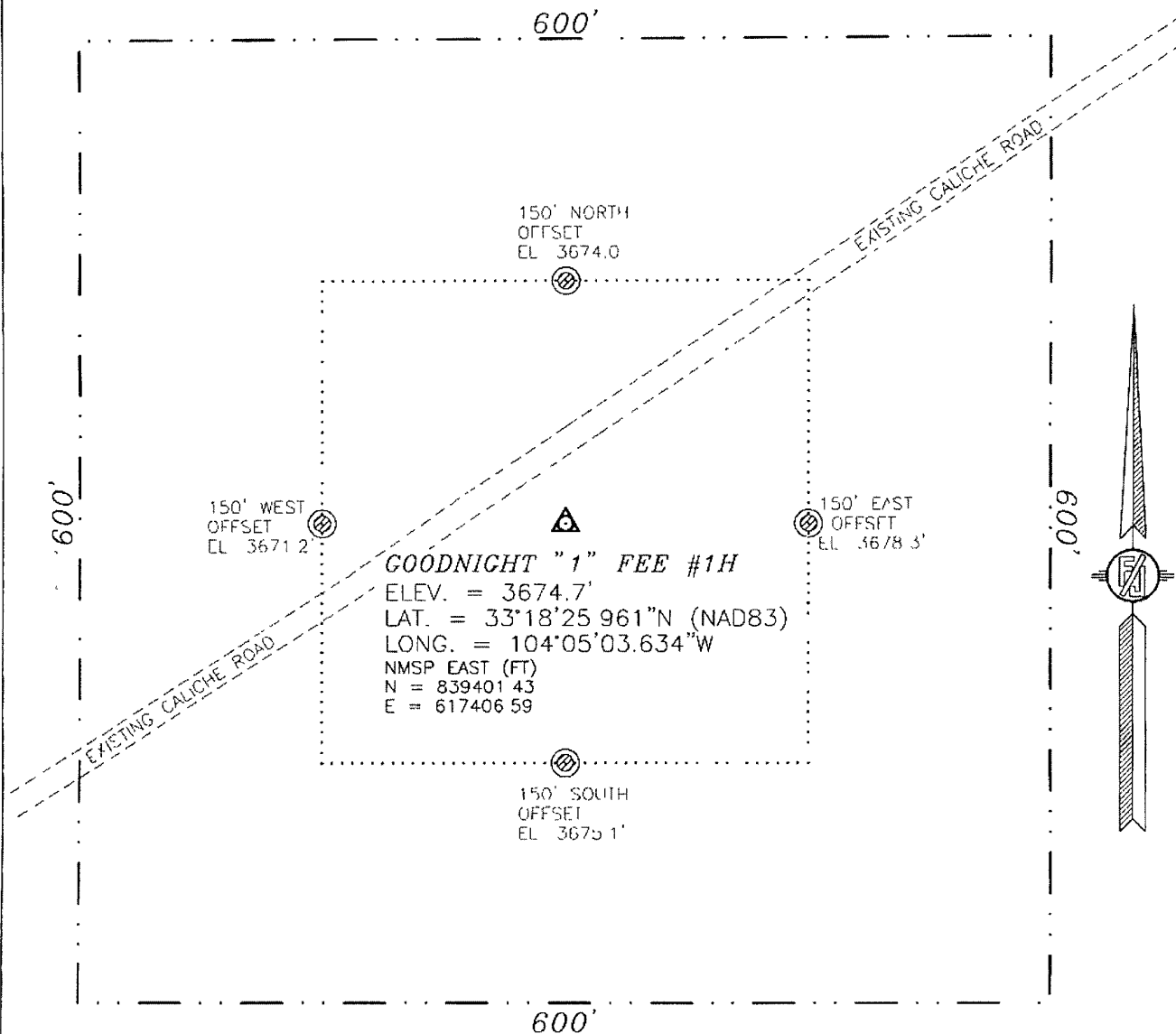
Signature: *[Signature]* Date: **07/23/2010**
Printed Name: **STEPHANIE A. YSASAGA**

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: **JUNE 30, 2010**
Signature and Seal of Professional Surveyor: *[Signature]*
Certificate Number: **12797**
SURVEY NO 131

SECTION 1, TOWNSHIP 12 SOUTH, RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO



010 50 100 200
SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM HWY. 380 AND CR. #256 GO SOUTH ON CR #256
(HAZEL RD) 7.0 MILES TURN RIGHT ON RANCH ROAD AND
GO NORTHWEST 1.45 MILES TURN LEFT ON RANCH ROAD
AND GO SOUTHWEST 2.0 MILES AND LOCATION IS 150' ON
THE LEFT (EAST)

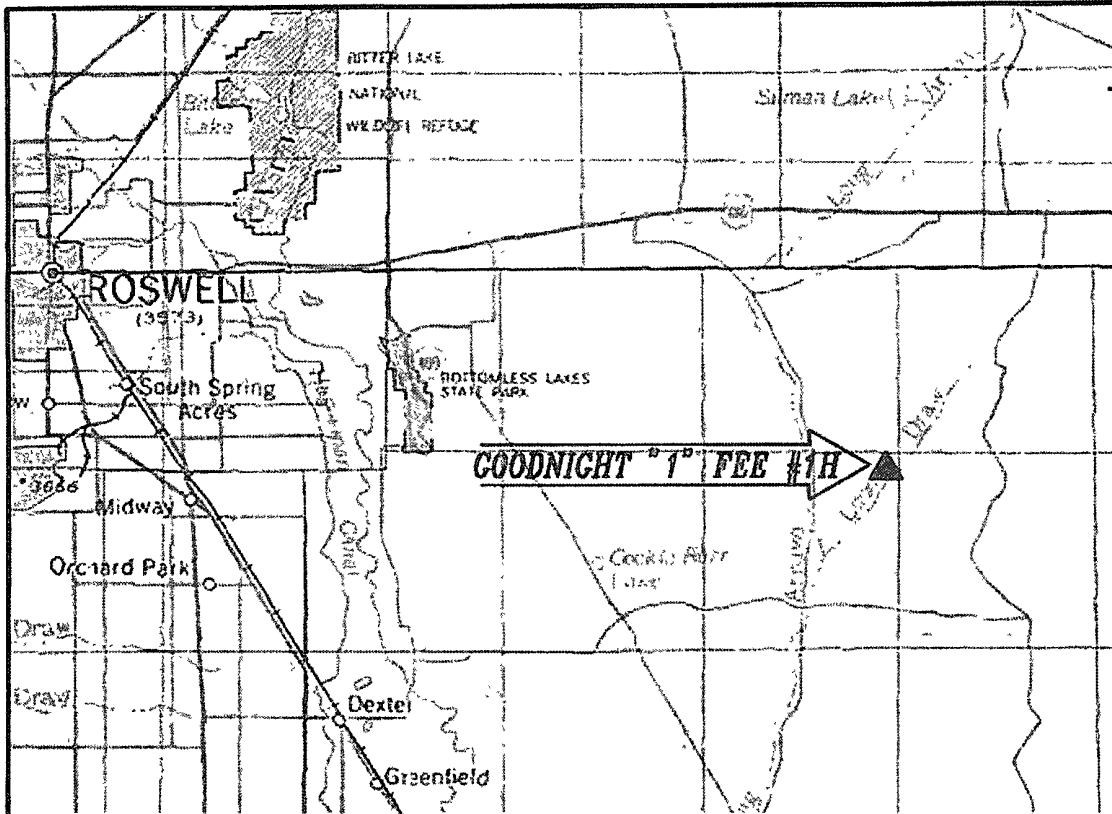
DEVON ENERGY PRODUCTION COMPANY, L.P.
GOODNIGHT "1" FEE #1H
LOCATED 2585 FT FROM THE NORTH LINE
AND 1980 FT. FROM THE EAST LINE OF
SECTION 1, TOWNSHIP 12 SOUTH,
RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

JUNE 30, 2010

SURVEY NO 134-R1

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 887 5830

SECTION 1, TOWNSHIP 12 SOUTH, RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DIRECTIONS TO LOCATION

FROM HWY. 380 AND CR. #256 GO SOUTH ON
CR #256 (HAZEL RD) 7.0 MILES TURN RIGHT
ON RANCH ROAD AND GO NORTHWEST 1.45
MILES TURN LEFT ON RANCH ROAD AND GO
SOUTHWEST 2.0 MILES AND LOCATION IS 150'
ON THE LEFT (EAST).

NOT TO SCALE

SEC 1 TWP 12-S RGE 28-E
SURVEY N.M.P.M.
COUNTY CHAVES STATE NEW MEXICO
DESCRIPTION 2585' FNL 1980' FEL
ELEVATION 3674.7'
OPERATOR DEVON ENERGY PRODUCTION COMPANY, LP
LEASE GOODNIGHT

DEVON ENERGY PRODUCTION COMPANY, L.P.
GOODNIGHT "1" FEE #1H
LOCATED 2585 FT. FROM THE NORTH LINE
AND 1980 FT. FROM THE EAST LINE OF
SECTION 1, TOWNSHIP 12 SOUTH,
RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

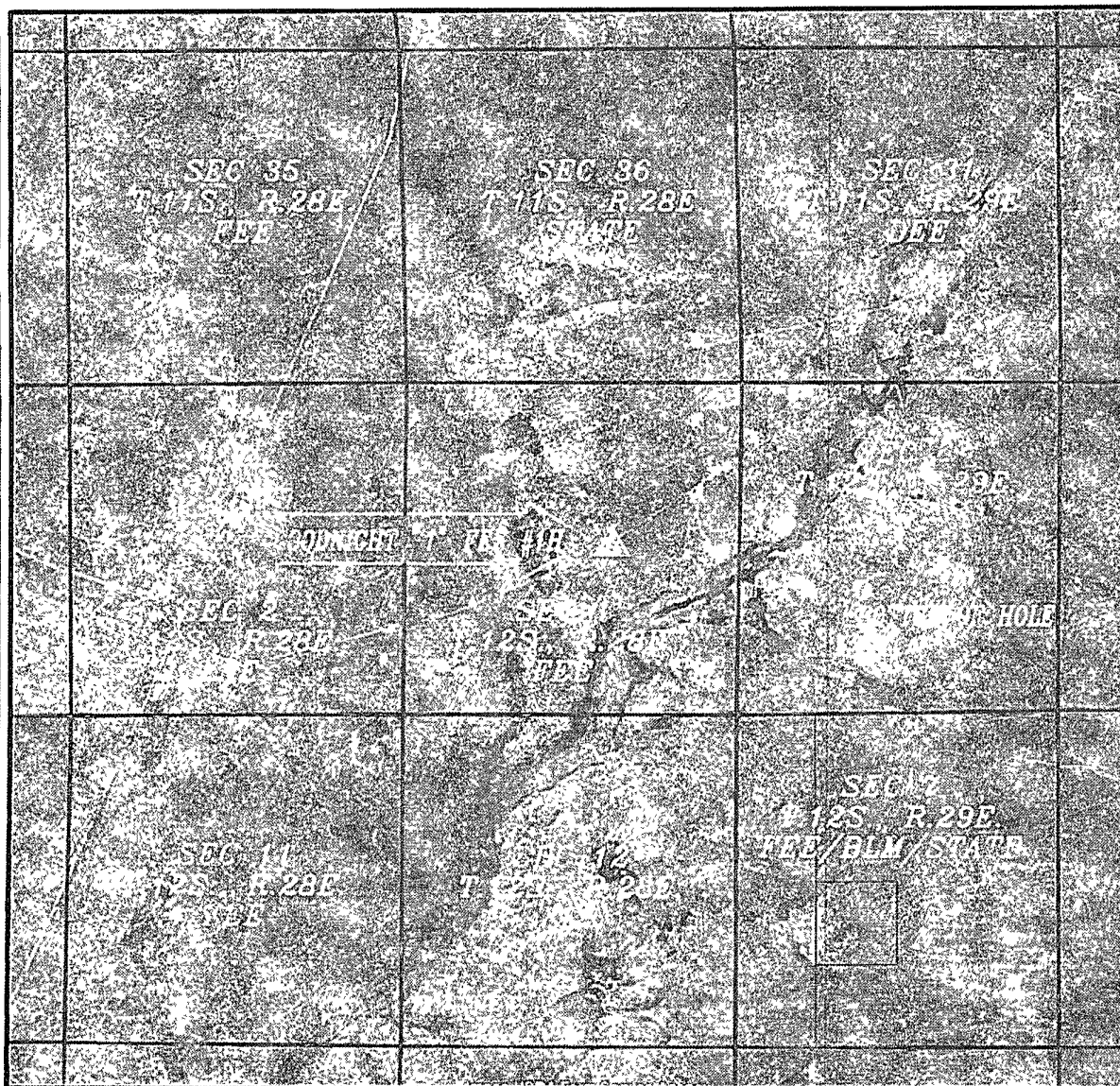
JUNE 30, 2010

SURVEY NO. 134-R1

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 897-5830 CARLSBAD, NEW MEXICO

SECTION 1, TOWNSHIP 12 SOUTH, RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

LAND OWNERSHIP MAP AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
USDA - AUG, 2009

DEVON ENERGY PRODUCTION COMPANY, L.P.
GOODNIGHT "1" FEE #1H
LOCATED 2585 FT. FROM THE NORTH LINE
AND 1980 FT FROM THE EAST LINE OF
SECTION 1, TOWNSHIP 12 SOUTH,
RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

JUNE 30, 2010

SURVEY NO. 134-R1

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(505) 887-5830



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JUL 26 2010

HOBBSOCD

Devon Energy

Chaves Co, New Mexico (Nad-83)

Goodnight 1 Fee #1H

Goodnight 1 Fee #1H

Lateral #1

Plan: Design #2

Standard Survey Report

21 July, 2010



Company:	Devon Energy	Local Co-ordinate Reference:	Site Goodnight 1 Fee #1H
Project:	Chaves Co, New Mexico (Nad-83)	TVD Reference:	WELL @ 3689 00ft (Original Well Elev)
Site:	Goodnight 1 Fee #1H	MD Reference:	WELL @ 3689 00ft (Original Well Elev)
Well:	Goodnight 1 Fee #1H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #2	Database:	EDM 2003 21 Single User Db

Project	Chaves Co, New Mexico (Nad-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Goodnight 1 Fee #1H, Sec 1, T-12S, R-28E				
Site Position:		Northing:	839,401 43 ft	Latitude:	33° 18' 25 961 N	
From:	Map	Easting:	617,405 59 ft	Longitude:	104° 5' 3 646 W	
Position Uncertainty:		0 00 ft	Slot Radius:	"	Grid Convergence:	0 14 °

Well	Goodnight 1 Fee #1H					
Well Position	+N/-S	0 00 ft	Northing:	839,401 43 ft	Latitude:	33° 18' 25 961 N
	+E/-W	0 00 ft	Easting:	617,405 59 ft	Longitude:	104° 5' 3 646 W
Position Uncertainty		0 00 ft	Wellhead Elevation:	3,689 00 ft	Ground Level:	3,670 00 ft

Wellbore	Lateral #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	06/15/10	8 01	61 14	49,340

Design	Design #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0 00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	7,745 00	0 00	0 00	100 22

Survey Tool Program	Date	07/21/10			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0 00	7,000 00	Design #2 (Lateral #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
7,000 00	11,524 18	Design #2 (Lateral #1)	CUDD MWD	MWD - Standard CUDD MWD	

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)	
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
6,170 00	0 00	0 00	6,170 00	0 00	0 00	0 00	0 00	0 00	0 00	
Wolfcamp										
6,860 00	0 00	0 00	6,860 00	0 00	0 00	0 00	0 00	0 00	0 00	
Pennsylvanian										
7,172 04	0 00	0 00	7,172 04	0 00	0 00	0 00	0 00	0 00	0 00	
KOP - Build 10°/100'										
7,655 29	48 32	100 22	7,600 00	-34 08	188 95	192 00	10 00	10 00	0 00	
Mississippian										
7,711 07	53 90	100 22	7,635 00	-41 78	231 65	235 39	10 00	10 00	0 00	
Mississippian Osage										

Company:	Devon Energy	Local Co-ordinate Reference:	Site Goodnight 1 Fee #1H
Project:	Chaves Co, New Mexico (Nad-83)	TVD Reference:	WELL @ 3689 00ft (Original Well Elev)
Site:	Goodnight 1 Fee #1H	MD Reference:	WELL @ 3689 00ft (Original Well Elev)
Well:	Goodnight 1 Fee #1H	North Reference:	Grd
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #2	Database:	EDM 2003 21 Single User Db

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)	
8,072.04	90.00	100.22	7,745.00	-101.70	563.86	572.96	10.00	10.00	0.00	
EOC - Hold I:90° @ A:100.22*										
11,524.18	90.00	100.22	7,745.00	-714.49	3,961.18	4,025.10	0.00	0.00	0.00	
PBHL - TD (G1F#1H)										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL - TD (G1F#1H)	0 00	359 88	7,745 00	-714 49	3,961 18	838,686 94	621,366 76	33° 18' 18 795 N	104° 4' 16 991 W
- plan hits target center									
- Point									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,170 00	6,170 00	Wolfcamp		0 00		
6,860 00	6,860 00	Pennsylvanian		0 00		
7,655 29	7,600 00	Mississippian		0 00		
7,711 07	7,635 00	Mississippian Osage		0 00		
	7,805 00	Mississippian Lower Osage		0 00		
	8,055 00	Mississippian Kinderhook		0 00		
	8,095 00	Siluro-Devonian		0 00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
7,172 04	7,172 04	0 00	0 00	KOP - Build 10°/100'	
8,072 04	7,745 00	-101 70	563 86	EOC - Hold I 90° @ A 100 22°	

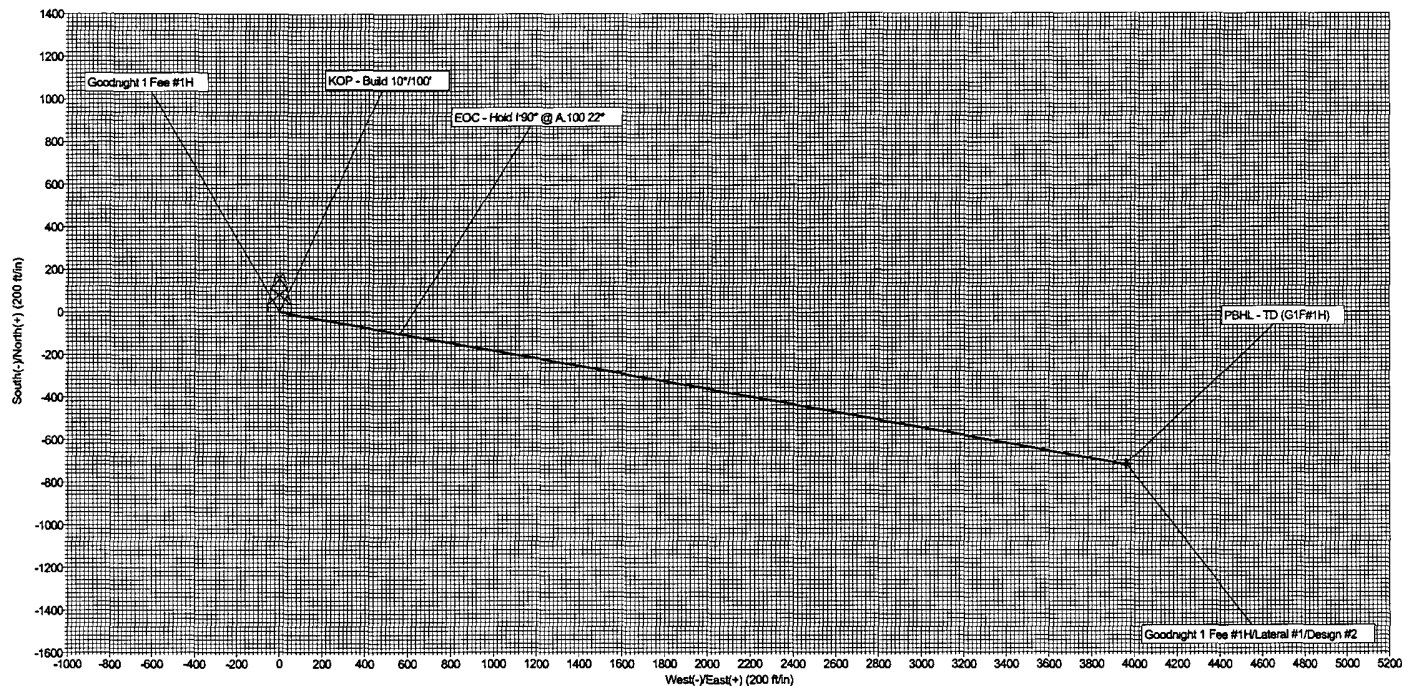
Checked By: _____	Approved By: _____	Date _____
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Project: Chaves Co, New Mexico (Nad-83)
 Site: Goodnight 1 Fee #1H
 Well: Goodnight 1 Fee #1H
 Wellbore: Lateral #1
 Design: Design #2



Plan Design #2 (Goodnight 1 Fee #1H/Lateral #1)			
Created By: Mike Starkay	Date: 10/15, July 21 2010		
Checked: _____	Date: _____		
Reviewed: _____	Date: _____		
Approved: _____	Date: _____		

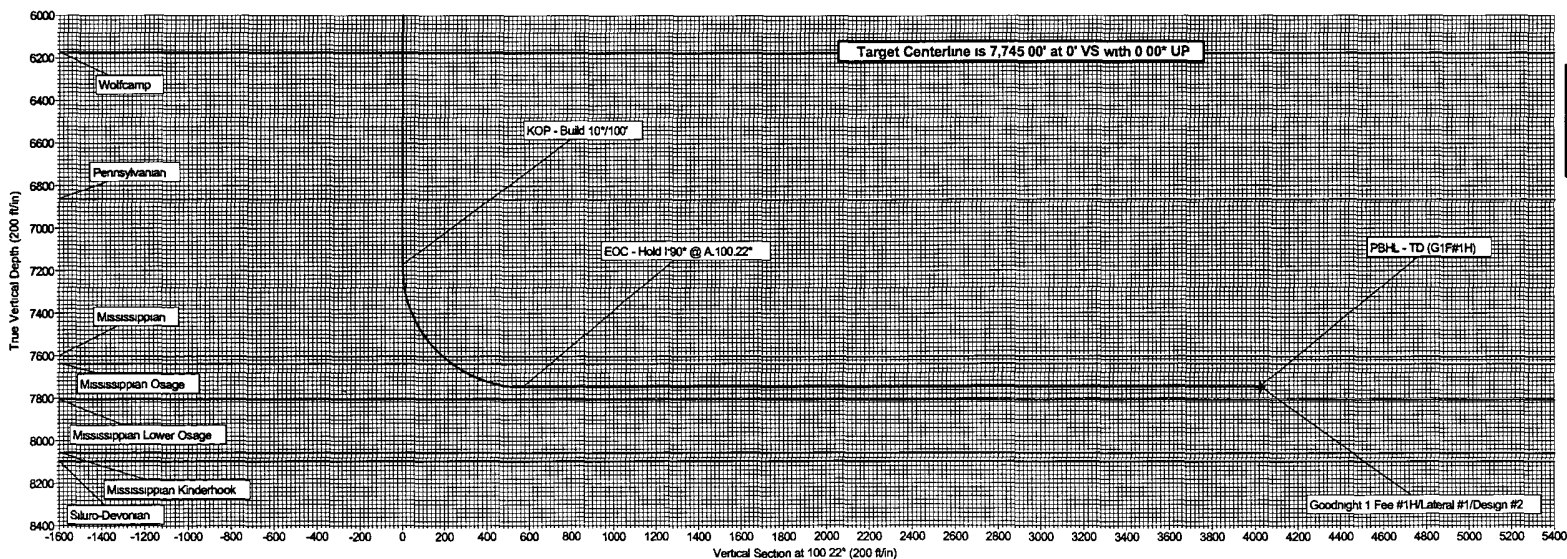


SECTION DETAILS									
Sec	MD	Inc	As	TVD	+N-S	+E-W	DLog	TFace	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	7172.04	0.00	0.00	7172.04	0.00	0.00	0.00	0.00	0.00
3	8072.04	90.00	100.22	7745.00	-101.71	563.86	10.00	100.22	572.96
4	11524.18	90.00	100.22	7745.00	-714.49	3961.18	0.00	4025.10	
									PBHL - TD (G1F#1H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N-S	+E-W	North	East	Latitude
PBHL - TD (G1F#1H)	7745.00	-714.49	3961.18	838689.94	621366.76	33° 18' 18.795 N
						104° 4' 16.991 W
						Shape Point

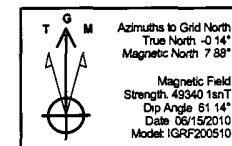
ANNOTATIONS		
TVD	MD	Annotation
7172.04	7172.04	KOP - Build 10°/100'
7745.00	8072.04	EOC - Hold 190° @ A.100.22"

WELL DETAILS: Goodnight 1 Fee #1H					
Ground Level: 3670.00					
WELL @ 3689.00N (Original Well Elev)					
+N-S	+E-W	North	East	Latitude	Longitude
0.00	0.00	839401.43	617405.59	33° 18' 25.961 N	104° 5' 3.646 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



Goodnight 1 Fee #1H_Plan #2_Report_07-21-10.txt

Devon Energy

Goodnight 1 Fee #1H - Design #2

Chaves Co, New Mexico (Nad-83)

Goodnight 1 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						
7172.04	0.00	0.00	7172.04	0.00 N	0.00 E	0.00
0.00						
7200.00	2.80	100.22	7199.99	0.12 S	0.67 E	0.68
10.00						
7300.00	12.80	100.22	7298.94	2.53 S	14.00 E	14.23
10.00						
7400.00	22.80	100.22	7394.03	7.94 S	44.04 E	44.75
10.00						
7500.00	32.80	100.22	7482.38	16.21 S	89.88 E	91.33
10.00						
7600.00	42.80	100.22	7561.30	27.08 S	150.11 E	152.53
10.00						
7700.00	52.80	100.22	7628.39	40.21 S	222.92 E	226.51
10.00						
7800.00	62.80	100.22	7681.62	55.21 S	306.08 E	311.02
10.00						
7900.00	72.80	100.22	7719.36	71.62 S	397.08 E	403.49
10.00						
8000.00	82.80	100.22	7740.48	88.95 S	493.15 E	501.11
10.00						
8072.04	90.00	100.22	7745.00	101.71 S	563.86 E	572.96
10.00						
8100.00	90.00	100.22	7745.00	106.67 S	591.37 E	600.92
0.00						
8200.00	90.00	100.22	7745.00	124.42 S	689.78 E	700.92
0.00						
8300.00	90.00	100.22	7745.00	142.17 S	788.20 E	800.92
0.00						
8400.00	90.00	100.22	7745.00	159.92 S	886.61 E	900.92
0.00						
8500.00	90.00	100.22	7745.00	177.67 S	985.02 E	1000.92
0.00						
8600.00	90.00	100.22	7745.00	195.42 S	1083.43 E	1100.92
0.00						
8700.00	90.00	100.22	7745.00	213.17 S	1181.84 E	1200.92
0.00						
8800.00	90.00	100.22	7745.00	230.92 S	1280.26 E	1300.92
0.00						
8900.00	90.00	100.22	7745.00	248.68 S	1378.67 E	1400.92
0.00						
9000.00	90.00	100.22	7745.00	266.43 S	1477.08 E	1500.92
0.00						
9100.00	90.00	100.22	7745.00	284.18 S	1575.49 E	1600.92
0.00						
9200.00	90.00	100.22	7745.00	301.93 S	1673.90 E	1700.92
0.00						
9300.00	90.00	100.22	7745.00	319.68 S	1772.32 E	1800.92
0.00						

Goodnight 1 Fee #1H_Plan #2_Report_07-21-10.txt

9400.00	90.00	100.22	7745.00	337.43 S	1870.73 E	1900.92
0.00						
9500.00	90.00	100.22	7745.00	355.18 S	1969.14 E	2000.92
0.00						
9600.00	90.00	100.22	7745.00	372.93 S	2067.55 E	2100.92
0.00						
9700.00	90.00	100.22	7745.00	390.68 S	2165.96 E	2200.92
0.00						
9800.00	90.00	100.22	7745.00	408.43 S	2264.38 E	2300.92
0.00						
9900.00	90.00	100.22	7745.00	426.18 S	2362.79 E	2400.92
0.00						
10000.00	90.00	100.22	7745.00	443.94 S	2461.20 E	2500.92
0.00						
10100.00	90.00	100.22	7745.00	461.69 S	2559.61 E	2600.92
0.00						
10200.00	90.00	100.22	7745.00	479.44 S	2658.02 E	2700.92
0.00						
10300.00	90.00	100.22	7745.00	497.19 S	2756.44 E	2800.92
0.00						
10400.00	90.00	100.22	7745.00	514.94 S	2854.85 E	2900.92
0.00						
10500.00	90.00	100.22	7745.00	532.69 S	2953.26 E	3000.92
0.00						
10600.00	90.00	100.22	7745.00	550.44 S	3051.67 E	3100.92
0.00						
10700.00	90.00	100.22	7745.00	568.19 S	3150.08 E	3200.92
0.00						
10800.00	90.00	100.22	7745.00	585.94 S	3248.49 E	3300.92
0.00						
10900.00	90.00	100.22	7745.00	603.69 S	3346.91 E	3400.92
0.00						
11000.00	90.00	100.22	7745.00	621.44 S	3445.32 E	3500.92
0.00						
11100.00	90.00	100.22	7745.00	639.20 S	3543.73 E	3600.92
0.00						
11200.00	90.00	100.22	7745.00	656.95 S	3642.14 E	3700.92
0.00						
11300.00	90.00	100.22	7745.00	674.70 S	3740.55 E	3800.92
0.00						
11400.00	90.00	100.22	7745.00	692.45 S	3838.97 E	3900.92
0.00						
11500.00	90.00	100.22	7745.00	710.20 S	3937.38 E	4000.92
0.00						
11524.18	90.00	100.22	7745.00	714.49 S	3961.18 E	4025.10
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 100.220° (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 0.137°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 11524.18ft., the Bottom Hole Displacement is 4025.10ft., in the Direction of 100.220° (Grid).

JARREL SERVICES, INC.

POST OFFICE BOX 1654

PHONE 505 393-5396

HOBBS NEW MEXICO 88240

RECEIVED

MAY 9 1977

O. C. C.
ARTESIA, 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



OF NEW MEXICO

P O BOX 1499

PHONE (505) 393-7751

HOBBS, NEW MEX.CO 88240

No 5843

Run No

Date of Run 3-21-77

Date Secured

RECEIVED

MAY 9 1977

CERTIFICATE OF ANALYSIS

Analyzed by Tom L. Ingram - White Ranch #1

Received from Jarrel Services

Box 1654

Hobbs, New Mexico 88240

Secured by

Time

Date

Analyzed condition Press

Temp

O. C. C.
ARTESIA, OFFICE

Mississippi Zone

FRACTIONAL ANALYSIS

Percentage Composition

	NOL %	LIQ. %	G.P.M.
Non Distillate	.501		
Gas	1.292		
Hydrogen sulfide			
Gasoline	84.884		
Gas	7.846		2.093
Gas	3.140		.865
Gas	.459		.150
Gas	.922		.290
Gas	.253		.092
Gas	.289		.104
Gas	.168		.069
Gas	.246		.105
Gas	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

Butanes Calc GPM .440

Pentanes Plus GPM .370

Ethane Calc GPM 2.093

RVP Gasoline GPM

B.T.U./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

32277 24