

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Artec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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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 15, 2009
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-005-64133		² Pool Code 87320		³ Pool Name WHITE RANCH; MISSISSIPPIAN (GAS)	
⁴ Property Code 38254		⁵ Property Name JINGLEBOB "29" FEE		⁶ Well Number 1H	
⁷ OGRID No. 6137		⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.		⁹ Elevation 3752.8	

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
D	29	11 S	29 E		670	NORTH	990	WEST	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
A	29	11 S	29 E		670	NORTH	670	EAST	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.

JINGLEBOB "29" FEE #1H ELEV. = 3752.8' LAT. = 33°20'29.042"N (NAD83) LONG. = 104°03'29.526"W NMSP EAST (FT) N = 851861.12 E = 625360.18		BOTTOM OF HOLE LAT. = 33°20'28.96"N LONG. = 104°02'46.85"W NMSP EAST (FT) N = 851862.58 E = 628980.68	
SURFACE LOCATION NW CORNER SEC. 29 LAT. = 33°20'35.24"N LONG. = 104°03'41.00"W NMSP EAST (FT) N = 852530.73 E = 624369.81		NE CORNER SEC. 29 LAT. = 33°20'35.12"N LONG. = 104°02'38.77"W NMSP EAST (FT) N = 852532.84 E = 629649.96	
SEC. 29 T.11S., R.29E.			
SW CORNER SEC. 29 LAT. = 33°19'43.01"N LONG. = 104°03'41.13"W NMSP EAST (FT) N = 847250.51 E = 624372.72		SE CORNER SEC. 29 D.N.F.	

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: **07/22/2010**
Printed Name: **STEPHANIE A. YASAGA**

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: **FILMON F. JARAMILLO, PLS 12797**
SURVEY NO. 135

PENETRATION POINT: 670'FNL & 1230' FWL; SEC 29

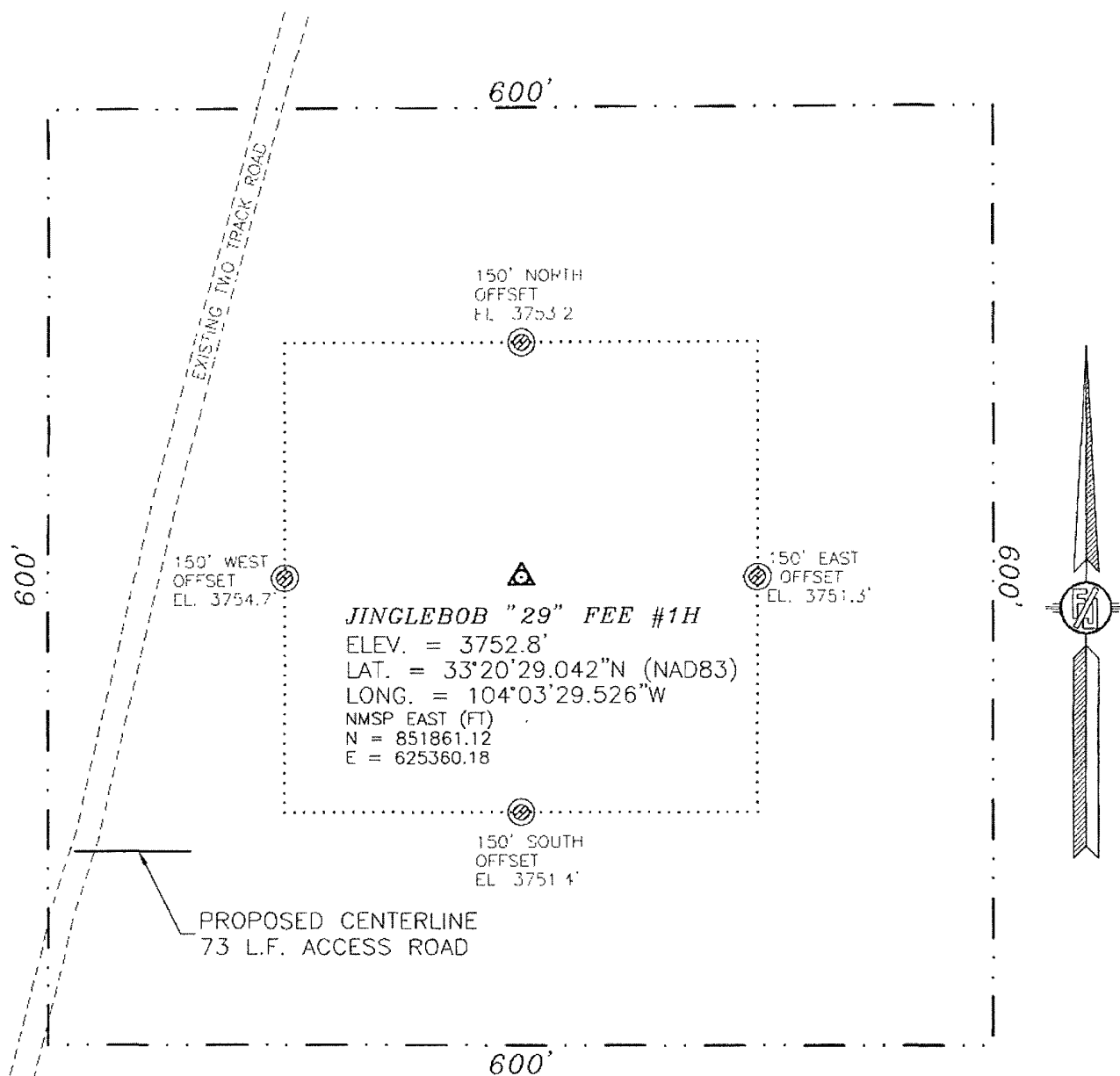


PRODUCING AREA



PROJECT AREA

SECTION 29, TOWNSHIP 11 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO



0 10 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 CALICHE ROAD AND GO WEST-NORTHWEST 1.45 MILES AND TURN RIGHT ON TWO TRACK RANCH ROAD AND GO NORTH 1.0 MILES AND LOCATION IS ON THE RIGHT (EAST) 225'.

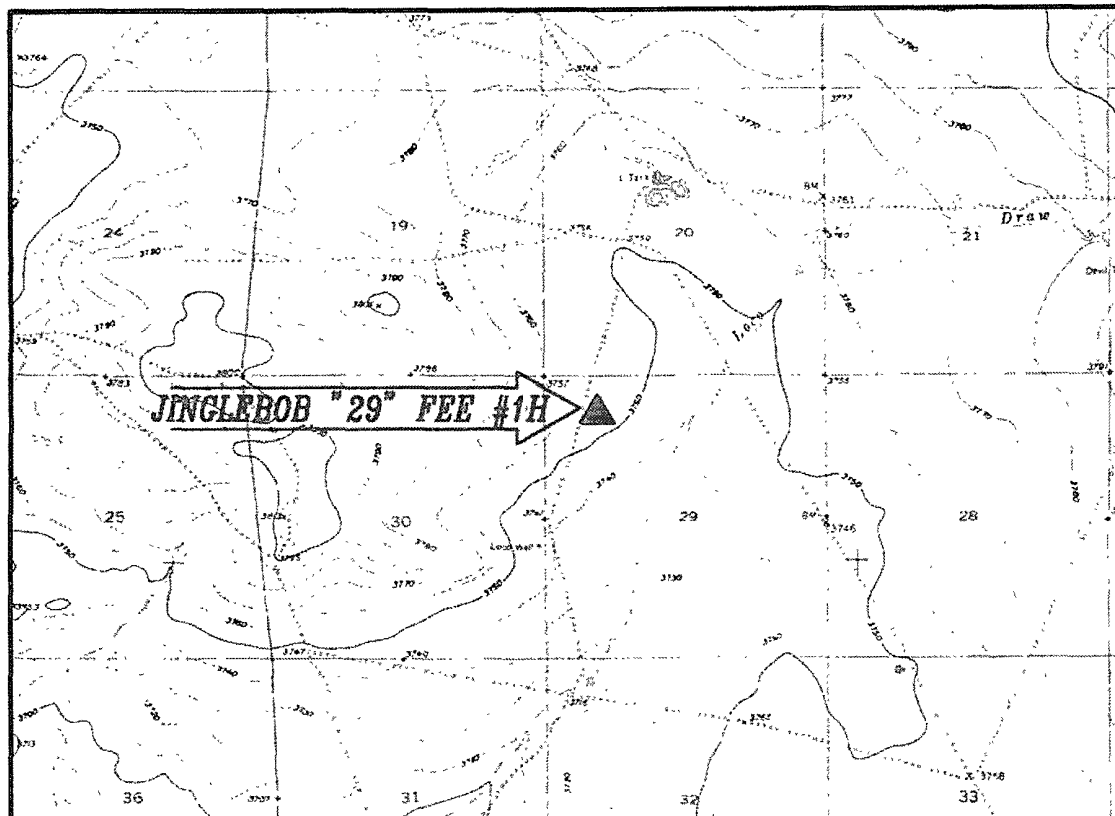
DEVON ENERGY PRODUCTION COMPANY, L.P.
JINGLEBOB "29" FEE #1H
LOCATED 670 FT. FROM THE NORTH LINE
AND 990 FT. FROM THE WEST LINE OF
SECTION 29, TOWNSHIP 11 SOUTH,
RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

JUNE 30, 2010

SURVEY NO. 135-R1

MADRON SURVEYING, INC. 3911 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 887-5830

SECTION 29, TOWNSHIP 11 SOUTH, RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



CONTOUR INTERVAL:
MALSTROM RANCH

DIRECTIONS TO LOCATION

FROM HWY. 380 AND CR. #256 GO SOUTH ON
CR #256 (HAZEL RD.) 7.0 MILES TURN RIGHT
ON CALICHE ROAD AND GO WEST-NORTHWEST
1.45 MILES AND TURN RIGHT ON TWO TRACK
RANCH ROAD AND GO NORTH 1.0 MILES AND
LOCATION IS ON THE RIGHT (EAST) 225'.

NOT TO SCALE

SEC. 29 TWP. 11-S RGE. 29-E
SURVEY N.M.P.M.
COUNTY CHAVES STATE NEW MEXICO
DESCRIPTION 670' FNL & 990' FWL
ELEVATION 3752.8'
OPERATOR DEVON ENERGY PRODUCTION COMPANY, LP
LEASE JINGLEBOB

DEVON ENERGY PRODUCTION COMPANY, L.P.
JINGLEBOB "29" FEE #1H
LOCATED 670 FT. FROM THE NORTH LINE
AND 990 FT. FROM THE WEST LINE OF
SECTION 29, TOWNSHIP 11 SOUTH,
RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

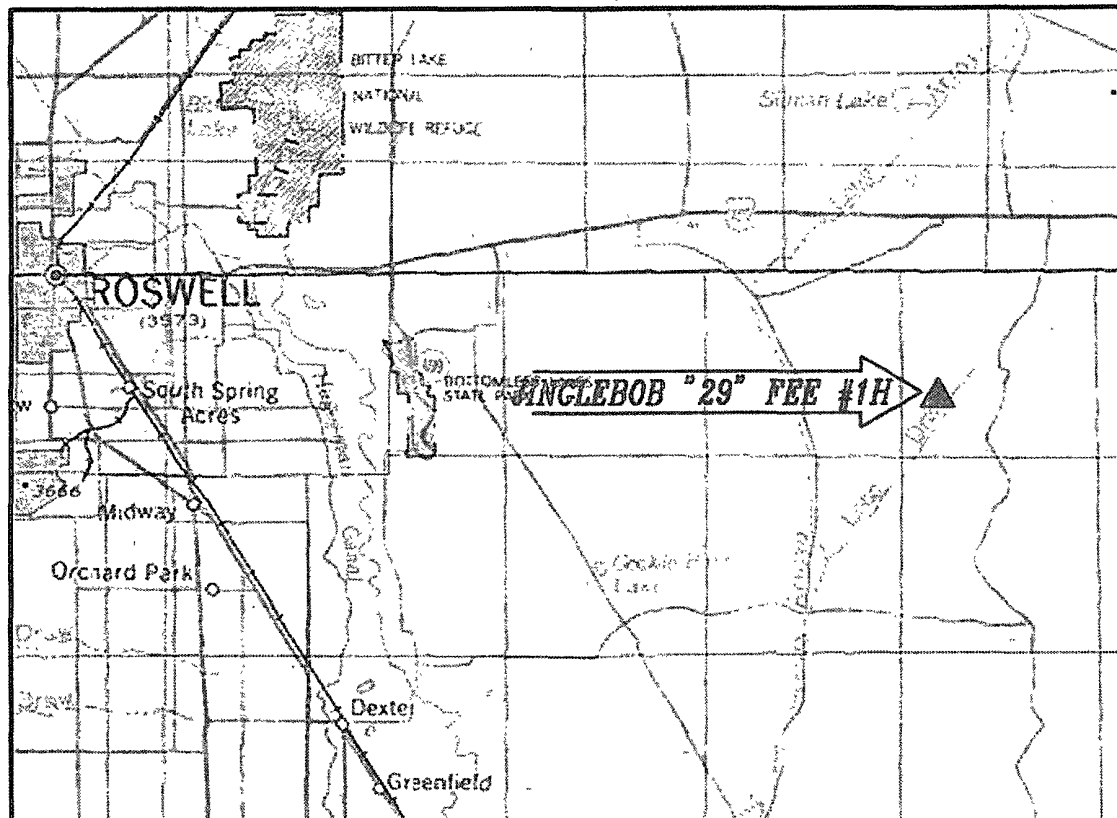
JUNE 30, 2010

SURVEY NO. 135-R1

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 881-5830

SECTION 29, TOWNSHIP 11 SOUTH, RANGE 29 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 CALICHE ROAD AND GO WEST-NORTHWEST
1.45 MILES AND TURN RIGHT ON TWO TRACK
RANCH ROAD AND GO NORTH 1.0 MILES AND
LOCATION IS ON THE RIGHT (EAST) 225'.

NOT TO SCALE

SEC. 29 TWP. 11-S RGE. 29-E
SURVEY N.M.P.M.
COUNTY CHAVES STATE NEW MEXICO
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DEVON ENERGY PRODUCTION COMPANY, L.P.
JINGLEBOB "29" FEE #1H
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SECTION 29, TOWNSHIP 11 SOUTH,
RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

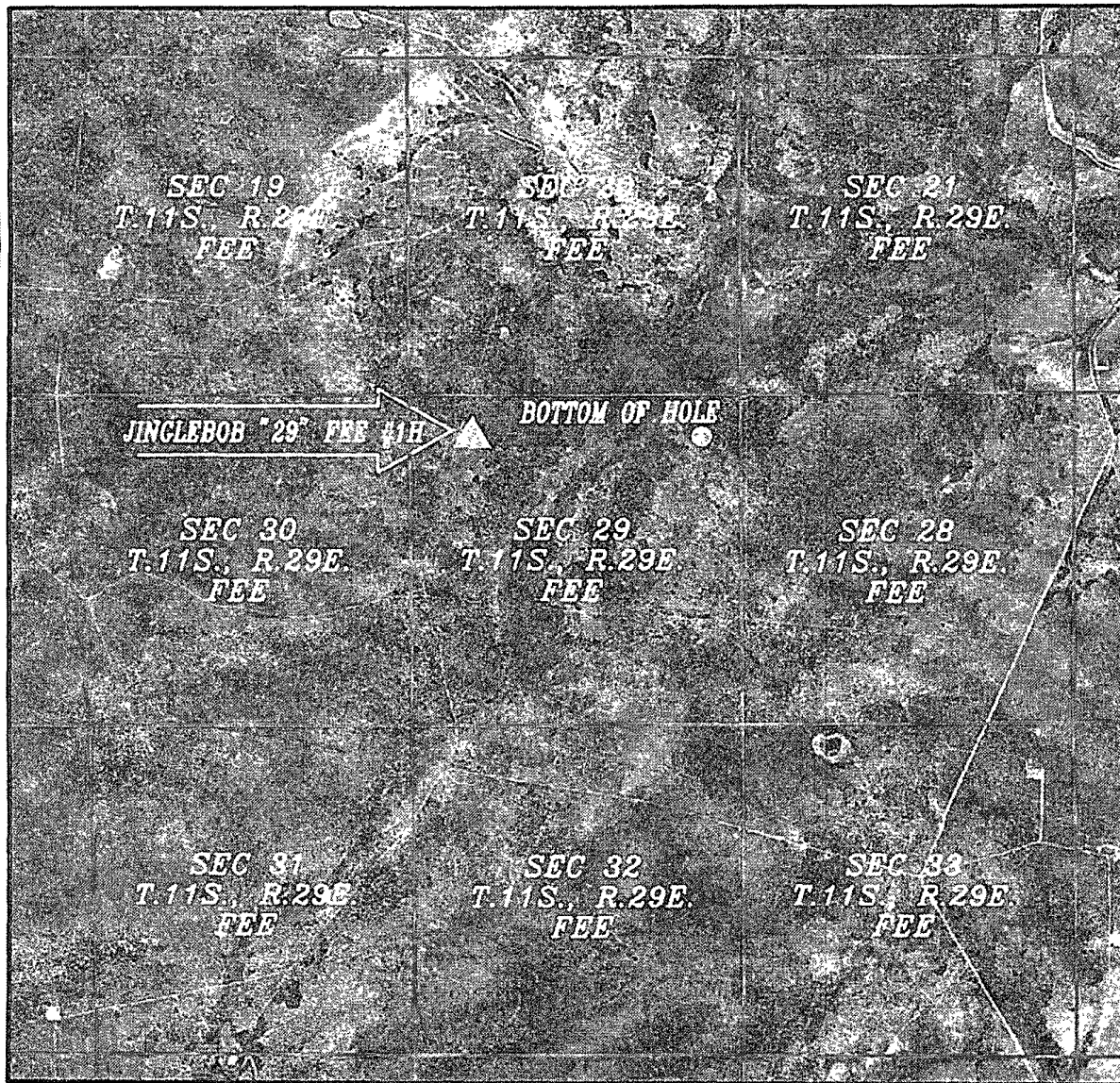
JUNE 30, 2010

SURVEY NO. 135-R1

MADRON SURVEYING, INC. 501 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 887-5830

SECTION 29, TOWNSHIP 11 SOUTH, RANGE 29 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.
JINGLEBOB "29" FEE #1H
LOCATED 670 FT. FROM THE NORTH LINE
AND 990 FT. FROM THE WEST LINE OF
SECTION 29, TOWNSHIP 11 SOUTH,
RANGE 29 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

JUNE 30, 2010

SURVEY NO. 135-R1

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



Devon Energy

Chaves Co, New Mexico (Nad-83)

Jinglebob 29 Fee #1H

Jinglebob 29 Fee #1H

Lateral #1

Plan: Design #2

Standard Survey Report

21 July, 2010

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JUL 26 2010

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CUDD Drilling & Measurement Services
Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Site Jinglebob 29 Fee #1H
Project:	Chaves Co, New Mexico (Nad-83)	TVD Reference:	WELL @ 3774.00ft (Original Well Elev)
Site:	Jinglebob 29 Fee #1H	MD Reference:	WELL @ 3774.00ft (Original Well Elev)
Well:	Jinglebob 29 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	Jinglebob 29 Fee #1H, Sec 29, T-11S, R-29E		
Site Position:	Northing:	851,861.12 ft	Latitude: 33° 20' 29.042 N
From: Map	Easting:	625,360.18 ft	Longitude: 104° 3' 29.526 W
Position Uncertainty:	0.00 ft	Slot Radius: "	Grid Convergence: 0.15 °

Well	Jinglebob 29 Fee #1H		
Well Position	+N/-S	0.00 ft	Northing: 851,861.12 ft
	+E/-W	0.00 ft	Easting: 625,360.18 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	3,774.00 ft
		Ground Level:	3,755.00 ft

Wellbore	Lateral #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	06/16/10	8.01	61.18	49,363

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 (°)
	0.00	0.00	0.00	89.86

Survey Tool Program	Date	07/21/10		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	7,300.00	Design #2 (Lateral #1)	NS-GYRO-MS	North sensing gyrocompassing m/s
7,300.00	11,420.49	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
5,585.00	0.00	0.00	5,585.00	0.00	0.00	0.00	0.00	0.00	0.00
Abo									
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Abo Dolomite									
6,385.00	0.00	0.00	6,385.00	0.00	0.00	0.00	0.00	0.00	0.00
Wolfcamp									
7,110.00	0.00	0.00	7,110.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennsylvanian									
7,472.35	0.00	0.00	7,472.35	0.00	0.00	0.00	0.00	0.00	0.00
7,472.36	0.00	89.98	7,472.36	0.00	0.00	0.00	0.00	0.00	0.00



CUDD Drilling & Measurement Services
Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Site Jinglebob 29 Fee #1H
Project:	Chaves Co, New Mexico (Nad-83)	TVD Reference:	WELL @ 3774.00ft (Original Well Elev)
Site:	Jinglebob 29 Fee #1H	MD Reference:	WELL @ 3774.00ft (Original Well Elev)
Well:	Jinglebob 29 Fee #1H	North Reference:	Grid
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)
KOP - Build 10°/100'									
8,028.72	55.64	89.98	7,945.31	0.10	249.56	249.56	10.00	10.00	0.00
Mississippian									
8,361.15	88.88	89.98	8,045.20	0.23	561.76	561.76	10.00	10.00	0.00
8,361.16	88.88	89.98	8,045.20	0.23	561.77	561.77	0.00	0.00	0.00
EOC - Hold 1:88.88° @ A:89.98°									
11,420.49	88.88	89.98	8,105.00	1.46	3,620.51	3,620.50	0.00	0.00	0.00
PBHL - TD(J29F#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(J29F#1H)	0.00	359.85	8,105.00	1.46	3,620.51	851,862.58	628,980.68	33° 20' 28.960 N	104° 2' 46.848 W
- plan hits target center									
- Point									

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,585.00	5,585.00	Abo		1.22	89.86
6,000.00	6,000.00	Abo Dolomite		1.22	89.86
6,385.00	6,385.00	Wolfcamp		1.22	89.86
7,110.00	7,110.00	Pennsylvanian		1.22	89.86
8,028.72	7,940.00	Mississippian		1.22	89.86
	8,195.00	Mississippian Lower Osage		1.22	89.86
	8,490.00	Siluro-Devonian		1.22	89.86

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
7,472.36	7,472.36	0.00	0.00	KOP - Build 10°/100'
8,361.16	8,045.20	0.23	561.77	EOC - Hold 1:88.88° @ A:89.98°

Checked By: _____ Approved By: _____ Date: _____

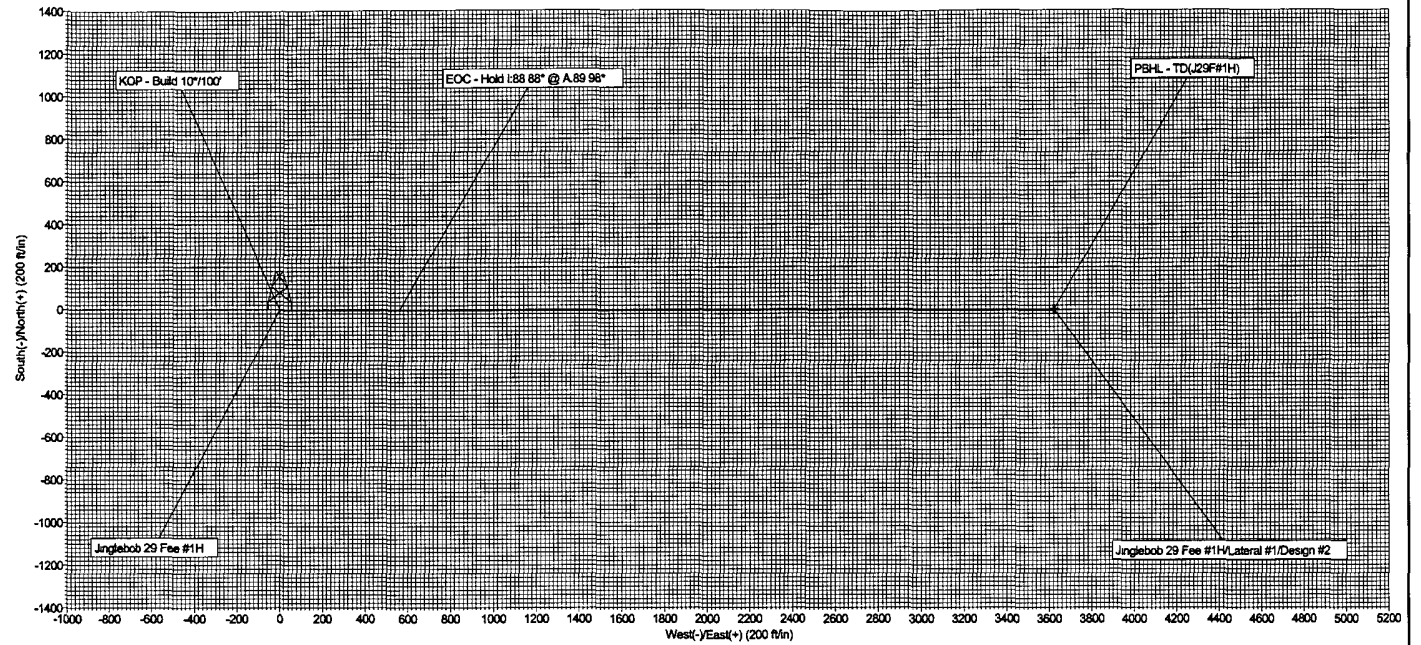


Project: Chaves Co, New Mexico (Nad-83)
 Site: Jinglebob 29 Fee #1H
 Well: Jinglebob 29 Fee #1H
 Wellbore: Lateral #1
 Design: Design #2



Plan: Design #2 (Jinglebob 29 Fee #1H/Lateral #1)

Created By: Mike Starkey Date: 10/26, July 21 2010
 Checked: _____ Date: _____
 Reviewed: _____ Date: _____
 Approved: _____ Date: _____



SECTION DETAILS

Sec	MD	inc	As	TVD	+N-S	+E-W	Dlog	TFace	VSec	Target
1	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
2	7472 35	0 00	0 00	7472 35	0 00	0 00	0 00	0 00	0 00	
3	8361 15	88 88	89 98	8045 20	0 23	561 78	10 00	89 96	561 76	
4	11420 49	88 88	89 98	8105 00	1 46	3620 51	0 00	0 00	3620 50	PBHL - TD(L29F#1H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

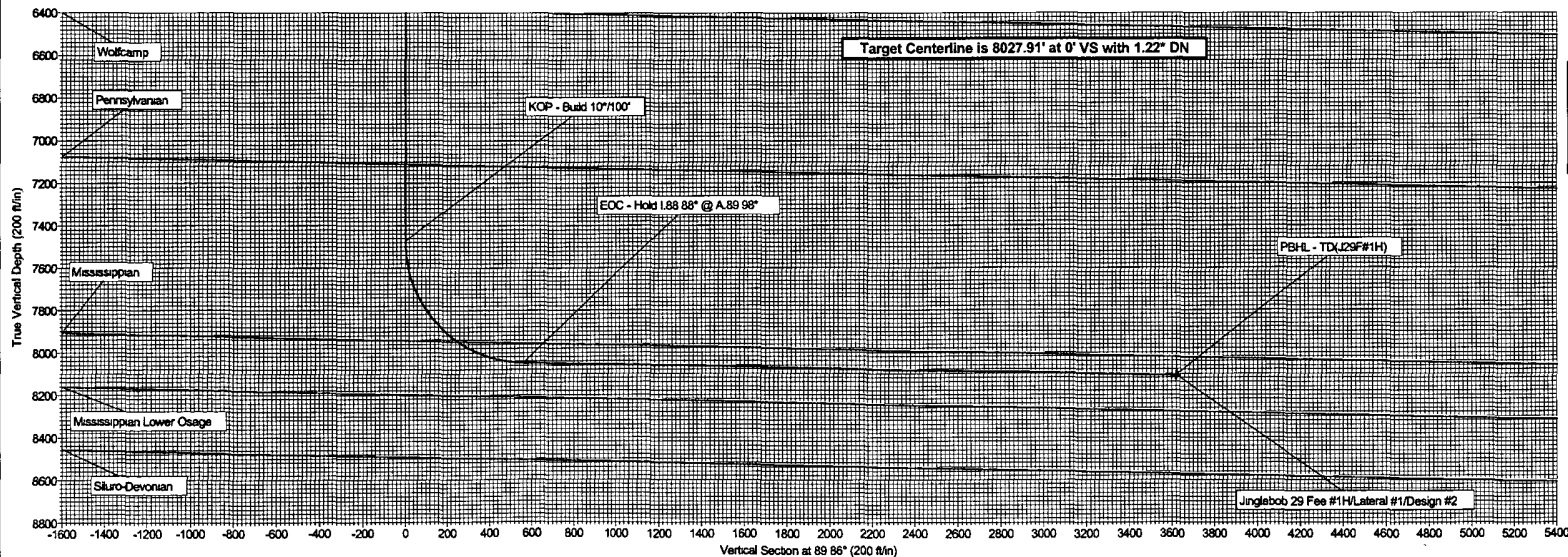
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - TD(L29F#1H)	8105 00	1 46	3620 51	851962 58	628960 68	33° 20' 28.960 N	104° 2' 46.848 W	Point

ANNOTATIONS

TVD	MD	Annotation
7472 35	7472 35	KOP - Build 10°/100'
8045 20	8361 16	EOC - Hold 1.88 88° @ A.89 96°

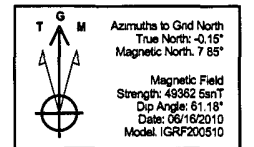
WELL DETAILS: Jinglebob 29 Fee #1H

Ground Level:						
3755 00						
WELL @ 3774.00R (Original Well Elev)						
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0 00	0 00	851861 12	625360 18	33° 20' 29 042 N	104° 3' 29 526 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



Jinglebob 29 Fee #1H_Plan #2_Report_07-21-10.txt

Devon Energy

Jinglebob 29 Fee #1H - Design #2

Chaves Co, New Mexico (Nad-83)

Jinglebob 29 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						
7472.35	0.00	0.00	7472.35	0.00 N	0.00 E	0.00
0.00						
7500.00	2.76	89.98	7499.99	0.00 N	0.67 E	0.67
10.00						
7600.00	12.76	89.98	7598.95	0.01 N	14.16 E	14.16
10.00						
7700.00	22.76	89.98	7694.06	0.02 N	44.63 E	44.63
10.00						
7800.00	32.76	89.98	7782.43	0.04 N	91.16 E	91.16
10.00						
7900.00	42.76	89.98	7861.38	0.06 N	152.32 E	152.32
10.00						
8000.00	52.76	89.98	7928.52	0.09 N	226.27 E	226.27
10.00						
8100.00	62.76	89.98	7981.79	0.13 N	310.75 E	310.75
10.00						
8200.00	72.76	89.98	8019.58	0.16 N	403.19 E	403.19
10.00						
8300.00	82.76	89.98	8040.75	0.20 N	500.80 E	500.80
10.00						
8361.15	88.88	89.98	8045.20	0.23 N	561.76 E	561.76
10.00						
8400.00	88.88	89.98	8045.96	0.24 N	600.60 E	600.60
0.00						
8500.00	88.88	89.98	8047.91	0.28 N	700.58 E	700.58
0.00						
8600.00	88.88	89.98	8049.87	0.32 N	800.56 E	800.56
0.00						
8700.00	88.88	89.98	8051.82	0.36 N	900.54 E	900.54
0.00						
8800.00	88.88	89.98	8053.78	0.40 N	1000.52 E	1000.52
0.00						
8900.00	88.88	89.98	8055.73	0.44 N	1100.50 E	1100.50
0.00						
9000.00	88.88	89.98	8057.69	0.48 N	1200.48 E	1200.48
0.00						
9100.00	88.88	89.98	8059.64	0.52 N	1300.47 E	1300.46
0.00						
9200.00	88.88	89.98	8061.60	0.56 N	1400.45 E	1400.44
0.00						
9300.00	88.88	89.98	8063.55	0.61 N	1500.43 E	1500.42
0.00						
9400.00	88.88	89.98	8065.51	0.65 N	1600.41 E	1600.40
0.00						
9500.00	88.88	89.98	8067.46	0.69 N	1700.39 E	1700.39
0.00						
9600.00	88.88	89.98	8069.42	0.73 N	1800.37 E	1800.37
0.00						

	Jinglebob	29	Fee #1H_Plan	#2_Report_07-21-10.txt		
9700.00	88.88	89.98	8071.37	0.77 N	1900.35 E	1900.35
0.00						
9800.00	88.88	89.98	8073.33	0.81 N	2000.33 E	2000.33
0.00						
9900.00	88.88	89.98	8075.28	0.85 N	2100.31 E	2100.31
0.00						
10000.00	88.88	89.98	8077.23	0.89 N	2200.29 E	2200.29
0.00						
10100.00	88.88	89.98	8079.19	0.93 N	2300.27 E	2300.27
0.00						
10200.00	88.88	89.98	8081.14	0.97 N	2400.25 E	2400.25
0.00						
10300.00	88.88	89.98	8083.10	1.01 N	2500.24 E	2500.23
0.00						
10400.00	88.88	89.98	8085.05	1.05 N	2600.22 E	2600.21
0.00						
10500.00	88.88	89.98	8087.01	1.09 N	2700.20 E	2700.19
0.00						
10600.00	88.88	89.98	8088.96	1.13 N	2800.18 E	2800.17
0.00						
10700.00	88.88	89.98	8090.92	1.17 N	2900.16 E	2900.15
0.00						
10800.00	88.88	89.98	8092.87	1.21 N	3000.14 E	3000.13
0.00						
10900.00	88.88	89.98	8094.83	1.25 N	3100.12 E	3100.11
0.00						
11000.00	88.88	89.98	8096.78	1.29 N	3200.10 E	3200.10
0.00						
11100.00	88.88	89.98	8098.74	1.33 N	3300.08 E	3300.08
0.00						
11200.00	88.88	89.98	8100.69	1.37 N	3400.06 E	3400.06
0.00						
11300.00	88.88	89.98	8102.64	1.41 N	3500.04 E	3500.04
0.00						
11400.00	88.88	89.98	8104.60	1.45 N	3600.03 E	3600.02
0.00						
11420.49	88.88	89.98	8105.00	1.46 N	3620.51 E	3620.50
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 89.858° (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 0.151°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 11420.49ft., the Bottom Hole Displacement is 3620.51ft., in the Direction of 89.858° (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



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

Requested by Jarrel Services

Box 1654

Hobbs, New Mexico 88240

Secured by

Time

Date

Initial condition Press

Temp

Mississippi Zone

O. C. C.
ARTESIA, OFFICE

FRACTIONAL ANALYSIS

Percentage Composition

	NOL %	LIQ. %	G.P.M.
Non Sulfide	.501		
Light	1.292		
Propane			
Butane	84.884		
Pentane	7.846		2.093
Hexane	3.140		.865
Heptane			
Octane	.459		.150
Nonane	.922		.290
Decane			
Undecane	.253		.092
Dodecane	.289		.104
Tridecane	.168		.069
Tetradecane	.246		.105
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

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