

New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John H. Bemis
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division



November 14, 2012

BUREAU OF LAND MANAGEMENT
ATT: Potash
620 E Greene Street
Carlsbad, NM 88220

STATE LAND OFFICE
ATT: Joe Mraz
PO BOX 1148
Santa Fe, NM 87505

RE: APPLICATION FOR PERMIT TO DRILL IN POTASH AREA

OPERATOR: Devon Energy Production Company, LP

LEASE NAME: Cotton Draw Unit #169H

PROPOSED LOCATION: SHL Lot A Sec 2 T25S R31E; 330' FNL 1295' FEL
BHL Lot P Sec 2 T25S R31E; 330' FSL 660' FEL

PROPOSED DEPTH: TVD 6,000' MD 12,487'

2012 NOV 19 AM 8

Gentleman:

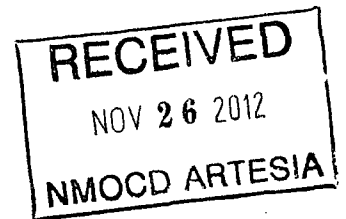
The application for permit to drill identified above has been filed with this office of the New Mexico Oil Conservation Division. Pursuant to the provisions of Oil Conservation Division Order R - 111 - P, please advise this office whether the location is within an established Life-of-Mine-Reserve are filed with and approved by your office. If not, please advise whether it is within the buffer zone established by the order.

Thank you for your assistance. Please Return as soon as possible.

Very truly yours,

OIL CONSERVATION DIVISION

Randy Dade
Randy Dade
Supervisor, District II



RESONSE:

The above referenced location is in LMR (2011 year) -----Yes _____ No X

The above referenced location is within the Buffer Zone -----Yes _____ No X

Signed *Larry J. Ryland*

Printed Signature Larry J. Ryland

Representing State Land Office

Potash reserved to U.S. in N2



DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

RECEIVED
NOV 05 2012
NOCD ARTESIA

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-40851	Pool Code 96641	Pool Name Paduca; Bone Spring (O)
Property Code 300635	Property Name COTTON DRAW UNIT	
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, LP.	
		Well Number 169H
		Elevation 3477.1'

Surface Location

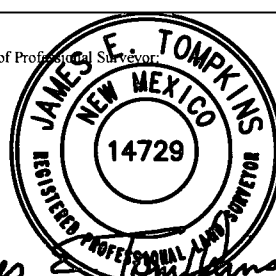
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	2	25 S	31 E		330	NORTH	1295	EAST	EDDY

Bottom Hole Location If Different From Surface

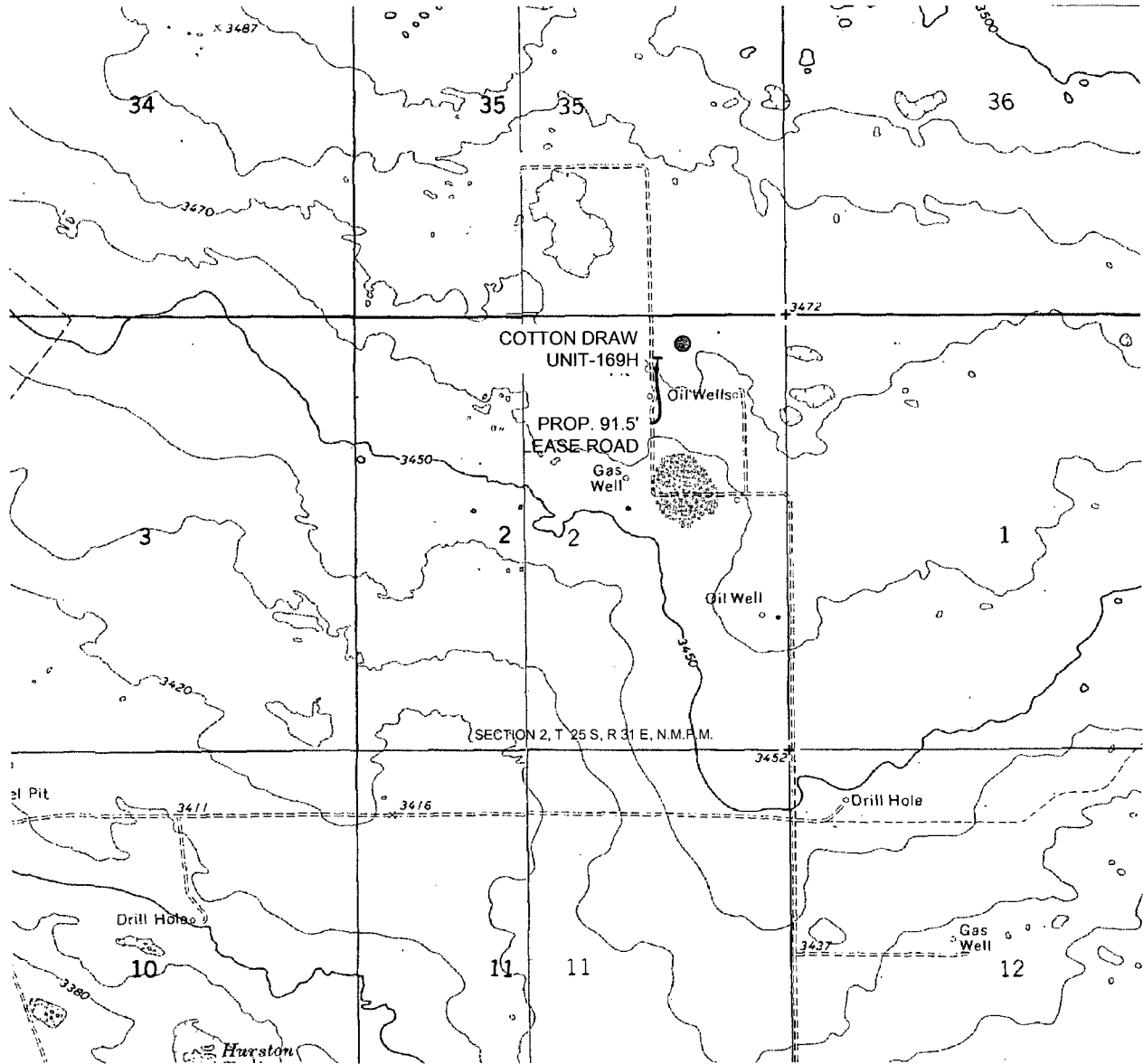
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	2	25 S	31 E		330	SOUTH	660	EAST	EDDY

Dedicated Acres 160	Joint or Infill	Consolidated Code	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.

<p>NW COR SEC 2 NMSP-E (NAD 83) Y = 424875.7' N X = 719616.0' E LAT. = N32° 10' 00.30" LONG. = W103° 45' 25.84"</p>	<p style="text-align: center;">330'</p> <p style="text-align: center;">COTTON DRAW UNIT 169H SHL NMSP-E (NAD 83) Y = 424543.3' N X = 723610.9' E LAT. = N32° 09' 56.80" LONG. = W103° 44' 39.39"</p>	<p style="text-align: center;">1295'</p> <p style="text-align: center;">NE COR SEC 2 NMSP-E (NAD 83) Y = 424872.7' N X = 724904.5' E LAT. = N32° 09' 59.98" LONG. = W103° 44' 24.32"</p>	<p style="text-align: center;">OPERATOR CERTIFICATION</p> <p><i>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 voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p style="text-align: right;"><i>Patti Riechers 10/31/12</i></p> <p>Signature _____ Date _____</p> <p>Print Name Patti Riechers</p> <p>E-mail Address Patti.Riechers@dvn.com</p>
<p>SW COR SEC 2 NMSP-E (NAD 83) Y = 419598.0' N X = 719631.2' E LAT. = N32° 09' 08.07" LONG. = W103° 45' 25.99"</p>	<p style="text-align: center;">660'</p> <p style="text-align: center;">COTTON DRAW UNIT 169H BHL NMSP-E (NAD 83) Y = 419903.5' N X = 724266.8' E LAT. = N32° 09' 10.85" LONG. = W103° 44' 32.05"</p>	<p style="text-align: center;">330'</p> <p style="text-align: center;">SE COR SEC 2 NMSP-E (NAD 83) Y = 419571.7' N X = 724928.4' E LAT. = N32° 09' 07.53" LONG. = W103° 44' 24.38"</p>	<p style="text-align: center;">SURVEYORS CERTIFICATION</p> <p><i>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.</i></p> <p>Sept. 2012 Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor <i>James E. Tompkins</i></p> <div style="text-align: center;">  </div> <p>Job No. WTC48670 Certificate Number JAMES E. TOMPKINS 14729</p>

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

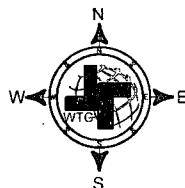
SECTION 2, T 25 S, R 31 E, N.M.P.M.

COUNTY: EDDY STATE: NM

DESCRIPTION: 330' FNL & 1295' FEL

OPERATOR: DEVON ENERGY

WELL NAME: COTTON DRAW UNIT-169H



DRIVING DIRECTIONS:

From the intersection of Buck Jackson Road and NM State Highway 128. Go southwesterly on Buck Jackson Road 4.8 miles to lease road left. Go 0.8 miles and take a right at the "Y". Go 0.3 miles to lease road left. Go 2.6 miles to lease road right. Go 0.8 miles and turn right. Go 0.7 miles and turn left and the location is on the left.

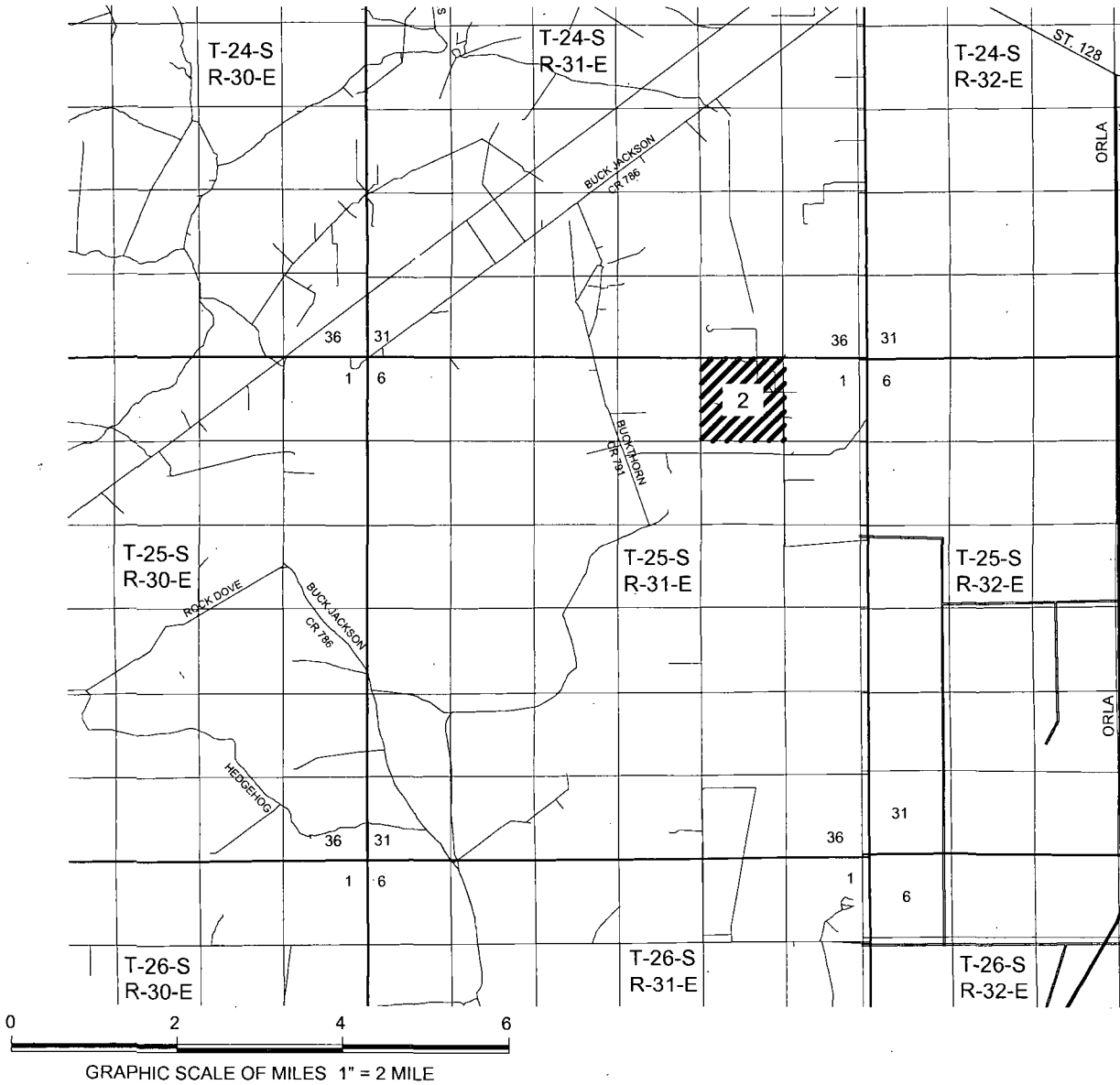


WEST TEXAS CONSULTANTS, INC.
 ENGINEERS PLANNERS SURVEYORS
 405 S.W. 1st. STREET
 ANDREWS, TEXAS 79714
 (432) 523-2181

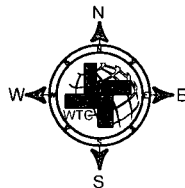


JOB No.: WTC48670

VICINITY MAP



SECTION 2, T 25 S, R 31 E, N.M.P.M.
 COUNTY: EDDY STATE: NM
 DESCRIPTION: 330' FNL & 1295' FEL
 OPERATOR: DEVON ENERGY
 WELL NAME: COTTON DRAW UNIT-169H



DRIVING DIRECTIONS:

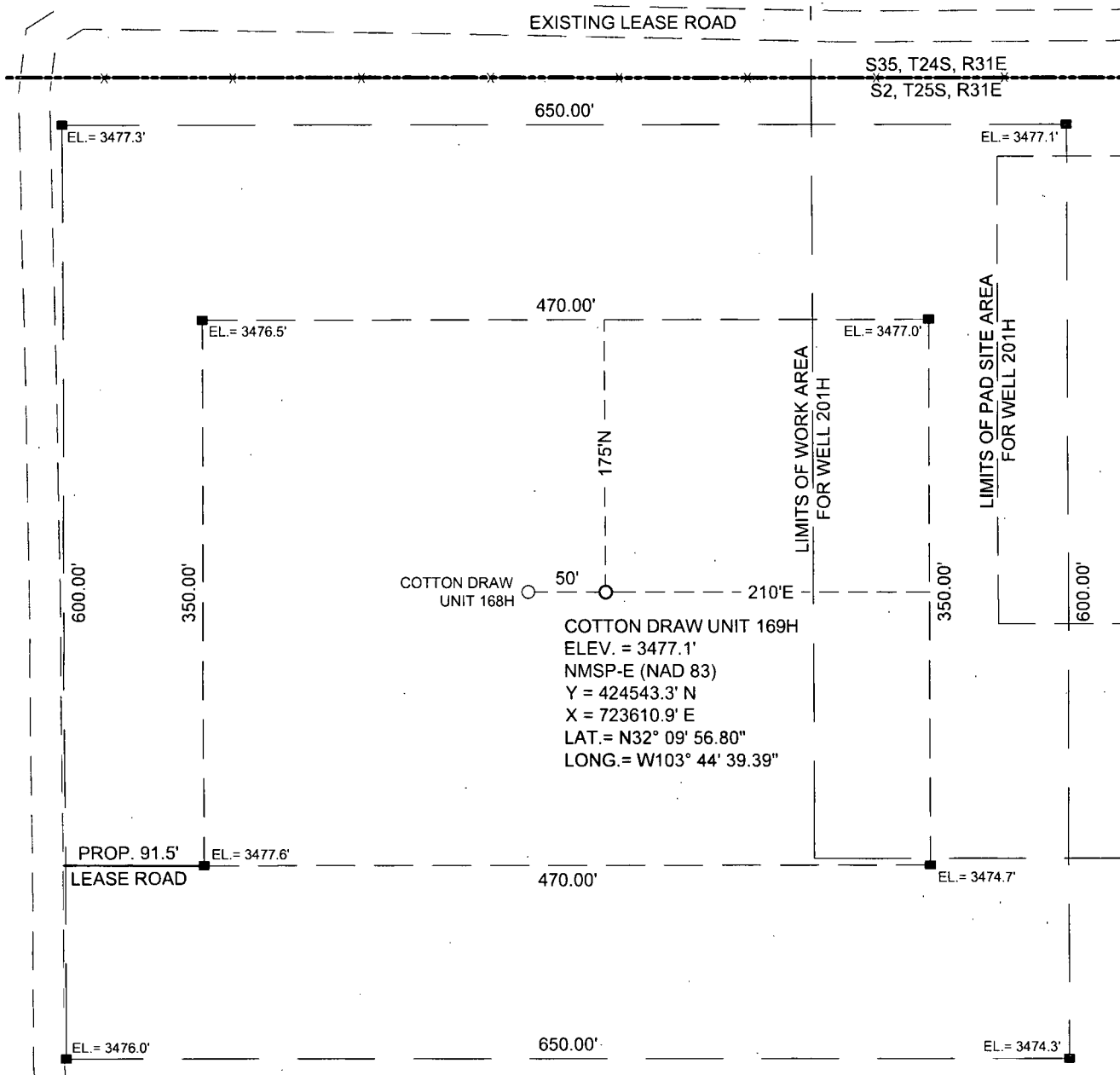
From the intersection of Buck Jackson Road and NM State Highway 128. Go southwesterly on Buck Jackson Road 4.8 miles to lease road left. Go 0.8 miles and take a right at the "Y". Go 0.3 miles to lease road left. Go 2.6 miles to lease road right. Go 0.8 miles and turn right. Go 0.7 miles and turn left and the location is on the left.



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 ENGINEERS PLANNERS SURVEYORS
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 ANDREWS, TEXAS 79714
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SITE LOCATION



SCALE: 1" = 100'

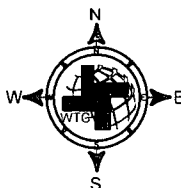
SECTION 2, T 25 S, R 31 E, N.M.P.M.

COUNTY: EDDY STATE: NM

DESCRIPTION: 330' FNL & 1295' FEL

OPERATOR: DEVON ENERGY

WELL NAME: COTTON DRAW UNIT-169H



DRIVING DIRECTIONS:

From the intersection of Buck Jackson Road and NM State Highway 128. Go southwesterly on Buck Jackson Road 4.8 miles to lease road left. Go 0.8 miles and take a right at the "Y". Go 0.3 miles to lease road left. Go 2.6 miles to lease road right. Go 0.8 miles and turn right. Go 0.7 miles and turn left and the location is on the left.



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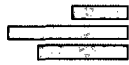
JOB No.: WTC48670



Weatherford[®]

Drilling Services

Proposal



devon

COTTON DRAW UNIT 169H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

NOVEMBER 1, 2012

Weatherford International, Ltd.

P.O. Box 61028
Midland, TX 79711 USA
+1.432.561.8892 Main
+1.432.561.8895 Fax
www.weatherford.com



Cotton Draw #169H
Eddy Co., New Mexico

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00		
3	6166.67	17.00	112.07	6158.39	-31.36	77.34	3.00	112.07	42.63		
4	7788.45	17.00	112.07	7709.30	-209.52	516.76	0.00	0.00	284.85		
5	8625.37	90.00	180.00	8200.00	-779.00	655.80	10.00	68.81	868.77		
6	12486.17	90.00	180.00	8200.00	-4639.80	655.90	0.00	0.00	4685.67	PBHL 169H	

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
CDU 169H	-0.10	50.00	424543.30	723610.90	32°09'56.787N	103°44'39.404W	N/A

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	
PBHL 169H	8200.00	-4639.80	655.90	419903.50	724266.80	Point	

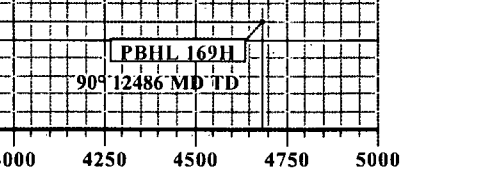
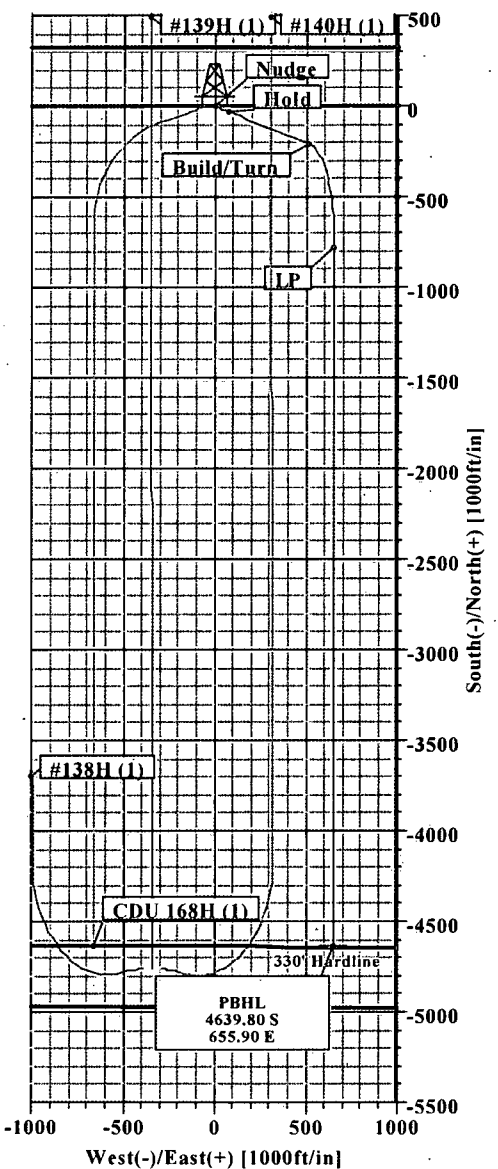
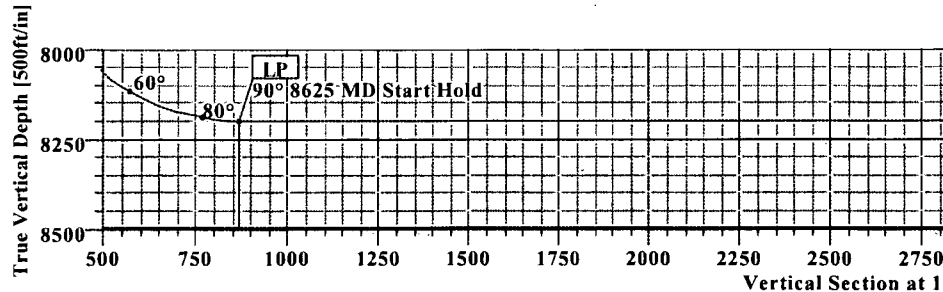
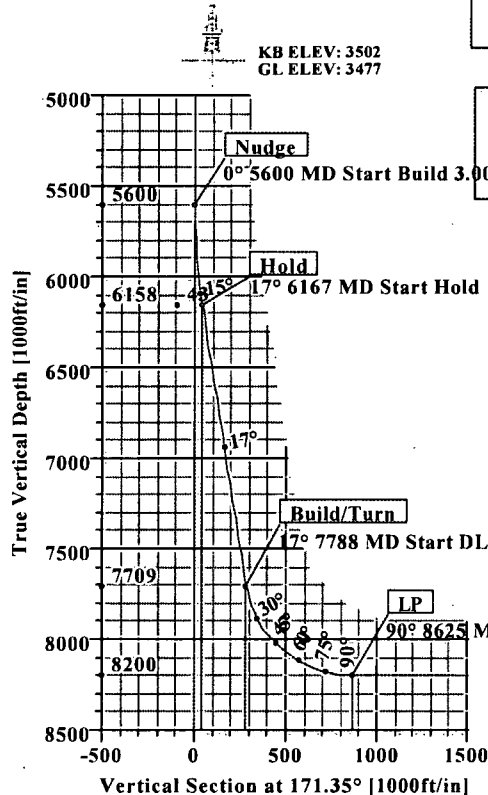
FIELD DETAILS
Eddy Co., NM (NAD 83)
Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS
Cotton Draw Unit 168,169 Pad
Site Centre Northing: 424543.40
Easting: 723560.90
Ground Level: 3477.00
Positional Uncertainty: 0.00
Convergence: 0.31

Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.08°

Magnetic Field
Strength: 4837 InT
Dip Angle: 60.05°
Date: 8/15/2013
Model: IGRF2010
Total Correction to Grid North: 7.08°

LEGEND



Plan: Plan #1 (CDU 169H/1)
Created By: Russell W. Joyner
Date: 11/1/2012



Weatherford

WFT Plan Report - X & Y's



Company: Devon Energy	Date: 11/1/2012	Time: 09:58:21	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: CDU 169H, Grid North		
Site: Cotton Draw Unit 168,169 Pad	Vertical (TVD) Reference: SITE 3502.0		
Well: CDU 169H	Section (VS) Reference: Well (0.00N,0.00E,171.35Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature		Db: Sybase

Plan: Plan #1	Date Composed: 11/1/2012
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Eddy Co., NM (NAD 83)	
Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Eastern Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Cotton Draw Unit 168,169 Pad

Site Position:	Northing: 424543.40 ft	Latitude: 32 9 56.790 N
From: Map	Easting: 723560.90 ft	Longitude: 103 44 39.986 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3477.00 ft		Grid Convergence: 0.31 deg

Well: CDU 169H	Slot Name:
Well Position: +N/-S -0.10 ft	Northing: 424543.30 ft
+E/-W 50.00 ft	Easting: 723610.90 ft
Position Uncertainty: 0.00 ft	Latitude: 32 9 56.787 N
	Longitude: 103 44 39.404 W

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 8/15/2013	Above System Datum: Mean Sea Level
Field Strength: 48371 nT	Declination: 7.40 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.05 deg
ft	+N/-S
	ft
0.00	0.00
	0.00
	171.35
	deg

Plan Section Information											
MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target	
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6166.67	17.00	112.07	6158.39	-31.36	77.34	3.00	3.00	0.00	112.07		
7788.45	17.00	112.07	7709.30	-209.52	516.76	0.00	0.00	0.00	0.00		
8625.37	90.00	180.00	8200.00	-779.00	655.80	10.00	8.72	8.12	68.81		
12486.17	90.00	180.00	8200.00	-4639.80	655.90	0.00	0.00	0.00	0.00	PBHL 169H	

Survey											
MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment	
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft		
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	424543.30	723610.90	Nudge	
5700.00	3.00	112.07	5699.95	-0.98	2.43	1.34	3.00	424542.32	723613.33		
5800.00	6.00	112.07	5799.63	-3.93	9.70	5.34	3.00	424539.37	723620.60		
5900.00	9.00	112.07	5898.77	-8.83	21.79	12.01	3.00	424534.47	723632.69		
6000.00	12.00	112.07	5997.08	-15.68	38.68	21.32	3.00	424527.62	723649.58		
6100.00	15.00	112.07	6094.31	-24.45	60.31	33.24	3.00	424518.85	723671.21		
6166.67	17.00	112.07	6158.39	-31.36	77.34	42.63	3.00	424511.94	723688.24	Hold	
6200.00	17.00	112.07	6190.27	-35.02	86.37	47.61	0.00	424508.28	723697.27		
6300.00	17.00	112.07	6285.90	-46.00	113.46	62.54	0.00	424497.30	723724.36		
6400.00	17.00	112.07	6381.53	-56.99	140.56	77.48	0.00	424486.31	723751.46		
6500.00	17.00	112.07	6477.16	-67.97	167.65	92.42	0.00	424475.33	723778.55		
6600.00	17.00	112.07	6572.79	-78.96	194.75	107.35	0.00	424464.34	723805.65		
6700.00	17.00	112.07	6668.42	-89.95	221.84	122.29	0.00	424453.35	723832.74		
6800.00	17.00	112.07	6764.05	-100.93	248.94	137.22	0.00	424442.37	723859.84		
6900.00	17.00	112.07	6859.68	-111.92	276.03	152.16	0.00	424431.38	723886.93		



Weatherford

WFT Plan Report - X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit 168,169 Pad
Well: CDU 169H
Wellpath: 1

Date: 11/1/2012 **Time:** 09:58:21 **Page:** 2
Co-ordinate(NE) Reference: Well: CDU 169H, Grid North
Vertical (TVD) Reference: SITE 3502.0
Section (VS) Reference: Well (0.00N,0.00E,171.35Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
7000.00	17.00	112.07	6955.31	-122.90	303.13	167.09	0.00	424420.40	723914.03	
7100.00	17.00	112.07	7050.94	-133.89	330.22	182.03	0.00	424409.41	723941.12	
7200.00	17.00	112.07	7146.57	-144.87	357.32	196.97	0.00	424398.43	723968.22	
7300.00	17.00	112.07	7242.20	-155.86	384.41	211.90	0.00	424387.44	723995.31	
7400.00	17.00	112.07	7337.83	-166.84	411.51	226.84	0.00	424376.46	724022.41	
7500.00	17.00	112.07	7433.46	-177.83	438.60	241.77	0.00	424365.47	724049.50	
7600.00	17.00	112.07	7529.09	-188.82	465.70	256.71	0.00	424354.48	724076.60	
7700.00	17.00	112.07	7624.72	-199.80	492.79	271.64	0.00	424343.50	724103.69	
7788.45	17.00	112.07	7709.30	-209.52	516.76	284.85	0.00	424333.78	724127.66	Build/Turn
7800.00	17.45	115.66	7720.34	-210.90	519.88	286.69	10.00	424332.40	724130.78	
7850.00	20.04	129.03	7767.71	-219.55	533.30	297.26	10.00	424323.75	724144.20	
7900.00	23.40	139.09	7814.17	-232.45	546.47	312.00	10.00	424310.85	724157.37	
7950.00	27.24	146.60	7859.37	-249.52	559.27	330.79	10.00	424293.78	724170.17	
8000.00	31.38	152.32	7902.97	-270.61	571.63	353.51	10.00	424272.69	724182.53	
8050.00	35.73	156.80	7944.63	-295.58	583.43	379.96	10.00	424247.72	724194.33	
8100.00	40.21	160.42	7984.04	-324.22	594.60	409.96	10.00	424219.08	724205.50	
8150.00	44.78	163.41	8020.90	-356.32	605.04	443.27	10.00	424186.98	724215.94	
8200.00	49.42	165.96	8054.93	-391.65	614.68	479.64	10.00	424151.65	724225.58	
8250.00	54.11	168.17	8085.87	-429.91	623.45	518.79	10.00	424113.39	724234.35	
8300.00	58.84	170.13	8113.48	-470.84	631.27	560.43	10.00	424072.46	724242.17	
8350.00	63.59	171.91	8137.55	-514.11	638.10	604.23	10.00	424029.19	724249.00	
8400.00	68.36	173.54	8157.90	-559.40	643.86	649.87	10.00	423983.90	724254.76	
8450.00	73.15	175.07	8174.38	-606.36	648.53	697.00	10.00	423936.94	724259.43	
8500.00	77.94	176.53	8186.86	-654.63	652.07	745.25	10.00	423888.67	724262.97	
8550.00	82.75	177.93	8195.24	-703.85	654.45	794.27	10.00	423839.45	724265.35	
8600.00	87.56	179.31	8199.46	-753.64	655.64	843.67	10.00	423789.66	724266.54	
8625.37	90.00	180.00	8200.00	-779.00	655.80	868.77	10.00	423764.30	724266.70	LP
8700.00	90.00	180.00	8200.00	-853.63	655.80	942.55	0.00	423689.67	724266.70	
8800.00	90.00	180.00	8200.00	-953.63	655.80	1041.42	0.00	423589.67	724266.70	
8900.00	90.00	180.00	8200.00	-1053.63	655.80	1140.28	0.00	423489.67	724266.70	
9000.00	90.00	180.00	8200.00	-1153.63	655.81	1239.14	0.00	423389.67	724266.71	
9100.00	90.00	180.00	8200.00	-1253.63	655.81	1338.00	0.00	423289.67	724266.71	
9200.00	90.00	180.00	8200.00	-1353.63	655.81	1436.87	0.00	423189.67	724266.71	
9300.00	90.00	180.00	8200.00	-1453.63	655.82	1535.73	0.00	423089.67	724266.72	
9400.00	90.00	180.00	8200.00	-1553.63	655.82	1634.59	0.00	422989.67	724266.72	
9500.00	90.00	180.00	8200.00	-1653.63	655.82	1733.46	0.00	422889.67	724266.72	
9600.00	90.00	180.00	8200.00	-1753.63	655.82	1832.32	0.00	422789.67	724266.72	
9700.00	90.00	180.00	8200.00	-1853.63	655.83	1931.18	0.00	422689.67	724266.73	
9800.00	90.00	180.00	8200.00	-1953.63	655.83	2030.04	0.00	422589.67	724266.73	
9900.00	90.00	180.00	8200.00	-2053.63	655.83	2128.91	0.00	422489.67	724266.73	
10000.00	90.00	180.00	8200.00	-2153.63	655.83	2227.77	0.00	422389.67	724266.73	
10100.00	90.00	180.00	8200.00	-2253.63	655.84	2326.63	0.00	422289.67	724266.74	
10200.00	90.00	180.00	8200.00	-2353.63	655.84	2425.50	0.00	422189.67	724266.74	
10300.00	90.00	180.00	8200.00	-2453.63	655.84	2524.36	0.00	422089.67	724266.74	
10400.00	90.00	180.00	8200.00	-2553.63	655.84	2623.22	0.00	421989.67	724266.74	
10500.00	90.00	180.00	8200.00	-2653.63	655.85	2722.09	0.00	421889.67	724266.75	
10600.00	90.00	180.00	8200.00	-2753.63	655.85	2820.95	0.00	421789.67	724266.75	
10700.00	90.00	180.00	8200.00	-2853.63	655.85	2919.81	0.00	421689.67	724266.75	
10800.00	90.00	180.00	8200.00	-2953.63	655.86	3018.67	0.00	421589.67	724266.76	
10900.00	90.00	180.00	8200.00	-3053.63	655.86	3117.54	0.00	421489.67	724266.76	
11000.00	90.00	180.00	8200.00	-3153.63	655.86	3216.40	0.00	421389.67	724266.76	
11100.00	90.00	180.00	8200.00	-3253.63	655.86	3315.26	0.00	421289.67	724266.76	
11200.00	90.00	180.00	8200.00	-3353.63	655.87	3414.13	0.00	421189.67	724266.77	



Weatherford

WFT Plan Report - X & Y's



Company: Devon Energy Field: Eddy Co., NM (NAD 83) Site: Cotton Draw Unit 168,169 Pad Well: CDU 169H Wellpath: 1	Date: 11/1/2012 Time: 09:58:21 Page: 3 Co-ordinate(NE) Reference: Well: CDU 169H, Grid North Vertical (TVD) Reference: SITE 3502.0 Section (VS) Reference: Well (0.00N,0.00E,171.35Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
11300.00	90.00	180.00	8200.00	-3453.63	655.87	3512.99	0.00	421089.67	724266.77	
11400.00	90.00	180.00	8200.00	-3553.63	655.87	3611.85	0.00	420989.67	724266.77	
11500.00	90.00	180.00	8200.00	-3653.63	655.87	3710.71	0.00	420889.67	724266.77	
11600.00	90.00	180.00	8200.00	-3753.63	655.88	3809.58	0.00	420789.67	724266.78	
11700.00	90.00	180.00	8200.00	-3853.63	655.88	3908.44	0.00	420689.67	724266.78	
11800.00	90.00	180.00	8200.00	-3953.63	655.88	4007.30	0.00	420589.67	724266.78	
11900.00	90.00	180.00	8200.00	-4053.63	655.88	4106.17	0.00	420489.67	724266.78	
12000.00	90.00	180.00	8200.00	-4153.63	655.89	4205.03	0.00	420389.67	724266.79	
12100.00	90.00	180.00	8200.00	-4253.63	655.89	4303.89	0.00	420289.67	724266.79	
12200.00	90.00	180.00	8200.00	-4353.63	655.89	4402.76	0.00	420189.67	724266.79	
12300.00	90.00	180.00	8200.00	-4453.63	655.90	4501.62	0.00	420089.67	724266.80	
12400.00	90.00	180.00	8200.00	-4553.63	655.90	4600.48	0.00	419989.67	724266.80	
12486.17	90.00	180.00	8200.00	-4639.80	655.90	4685.67	0.00	419903.50	724266.80	PBHL 169H

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->				
							Deg	Min	Sec	Deg	Min	Sec		
PBHL 169H		8200.00	-4639.80	655.90	419903.50	724266.80	32	9	10.837	N	103	44	32.070	W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
5600.00	5600.00	Nudge
6166.67	6158.39	Hold
7788.45	7709.31	Build/Turn
8625.37	8200.00	LP
12486.16	8200.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



Weatherford

Weatherford Drilling Services

GeoDec v5.03

Report Date: November 01, 2012
 Job Number: _____
 Customer: Devon Energy
 Well Name: Cotton Draw Unit 169H
 API Number: _____
 Rig Name: _____
 Location: Eddy Co., NM
 Block: _____
 Engineer: RWJ

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 424543.400 USFT	Latitude 32.1657774 DEG
East/West 723560.900 USFT	Longitude -103.7444358 DEG
Grid Convergence: .31°	
Total Correction: +7.21°	

Geodetic Location WGS84 Elevation = 0.0 Meters
 Latitude = 32.16578° N 32° 9 min 56.799 sec
 Longitude = 103.74444° W 103° 44 min 39.969 sec

Magnetic Declination =	7.52°	[True North Offset]	
Local Gravity =	.9988 g	Checksum =	6564
Local Field Strength =	48467 nT	Magnetic Vector X =	23971 nT
Magnetic Dip =	60.07°	Magnetic Vector Y =	3164 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	42005 nT
Spud Date =	Aug 15, 2012	Magnetic Vector H =	24179 nT

Signed: _____ Date: _____

New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John H. Bemis
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division



November 7, 2012

BUREAU OF LAND MANAGEMENT
ATT: Potash
620 E Greene Street
Carlsbad, NM 88220

STATE LAND OFFICE
ATT: Joe Mraz
PO BOX 1148
Santa Fe, NM 87505

RE: APPLICATION FOR PERMIT TO DRILL IN POTASH AREA

OPERATOR: Devon Energy Production Company, LP

LEASE NAME: Cotton Draw Unit #169H

PROPOSED LOCATION: SHL Lot A Sec 2 T25S R31E; 330' FNL 1295' FEL
BHL Lot P Sec 2 T25S R31E; 330' FSL 660' FEL

PROPOSED DEPTH: TVD 6,000' MD 12,487'

Gentleman:

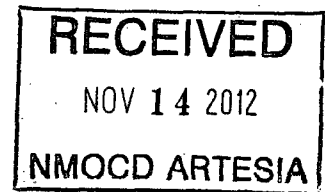
The application for permit to drill identified above has been filed with this office of the New Mexico Oil Conservation Division. Pursuant to the provisions of Oil Conservation Division Order R - 111 - P, please advise this office whether the location is within an established Life-of-Mine-Reserve are filed with and approved by your office. If not, please advise whether it is within the buffer zone established by the order.

Thank you for your assistance. Please Return as soon as possible.

Very truly yours,

OIL CONSERVATION DIVISION

Randy Dade
Randy Dade
Supervisor, District II



RESONSE:

The above referenced location is in LMR (2012 year) ----- Yes _____ No

The above referenced location is within the Buffer Zone ----- Yes _____ No

Signed _____

Printed Signature JAMES S. RUTLEY

Representing BLM - CFO

