

DATE IN 1-12-11	SUSPENSE	ENGINEER DKB	LOGGED IN 1.13.11	TYPE NSL	APP NO. 1101353476
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



Devon
Seren Sisters 25 #44

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

- [D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
[B] ☒ Offset Operators, Leaseholders or Surface Owner
[C] ☐ Application is One Which Requires Published Legal Notice
[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,
[F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

James Bruce
Print or Type Name

Signature

Attorney
Title

Date

jamesbruc@aol.com
e-mail Address

RECEIVED OGD
2011 JAN 12 P 2:29

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)
(505) 660-6612 (Cell)
(505) 982-2151 (Fax)

jamesbruc@aol.com

January 12, 2011

Hand delivered

David K. Brooks
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Dear Mr. Brooks:

Pursuant to Division Rule NMAC 19.15.15.13, Devon Energy Production Company, L.P. applies for approval of an unorthodox oil well location for the following well:

<u>Well:</u>	Serene Sisters 25 Federal Well No. 4H
<u>Surface location:</u>	200 feet FSL & 1750 feet FWL Section
<u>Penetration point:</u>	Same as surface location
<u>Bottom hole location:</u>	400 feet FNL & 990 feet FWL
<u>Well unit (project area):</u>	W½W½ of Section 25, Township 18 South, Range 31 East, N.M.P.M., Eddy County, New Mexico

Applicant proposes to drill the well to test the Bone Spring formation (Northwest Hackberry-Bone Spring Pool). The pool is spaced on 40 acres, with wells to be located no closer than 330 feet to a quarter-quarter section line. A portion of the APD for the well, with a Form C-102 and directional drilling plan, is attached as **Exhibit A**.

The surface location is unorthodox because the operator is using the same wellpad for both the proposed well and its proposed Serene Sisters 25 Federal Well No. 3H. **Exhibit A**. The wellsite is near an existing road, will minimize surface disturbance, and reduce costs. The top of the Bone Spring will be penetrated at the surface location, but the perforated portion of the wellbore will be at least 330 feet FSL and 990 feet FWL of Section 25.

The W½ of Section 25 is comprised of Federal Lease LC 065680, with common ownership, so interest owners in the E½W½ of Section 25 have not been notified of this application. The working interest owners in the N½NW¼ of Section 36 are as follows:

COG Operating LLC
Suite 1300
550 West Texas
Midland, Texas 79701

Nadel and Gussman HEYCO, LLC
P.O. Box 1933
Roswell, New Mexico 88202

Notice of this application was given to the interest owners by the letter marked **Exhibit B**.

Please contact me if you need any further information on this application.

Very truly yours,



James Bruce

Attorney for Devon Energy Production Company, L.P.

Operator Copy

Form 3160-3
(February 2005)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No 1004-0137
Expires March 31, 2007

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM LC 0065680
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator Devon Energy Production Co., LP		7. If Unit or CA Agreement, Name and No
3a. Address 20 North Broadway OKC, OK 73102		8. Lease Name and Well No. Serene Sisters 25 Federal 411
3b. Phone (In, outside area code) (405)-552-7802		9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface SESW 200' FSL & 1625' FWL Lot N At proposed prod. zone NWNW 400' FNL & 990' FWL Lot D		10. Field and Pool, or Exploratory Hackberry, Bone Spring, NW
11. Sec. T. R. M. or Blk. and Survey or Area Sec 25-T18S-R31E		12. County or Parish Eddy
14. Distance in miles and direction from nearest town or post office* Approximately 12 miles southeast of Loco Hills, NM.		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 200'	16. No. of acres in lease 640 acres	17. Spacing Unit dedicated to this well 160 acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. SL: 50' BHL: 990'	19. Proposed Depth TVD 8,240' MD 12,914'	20. BLM/BIA Bond No. on file CO-1104
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3667.5' GL	22. Approximate date work will start* 09/15/2010	23. Estimated duration 45 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature	Name (Printed Typed) Stephanie A. Ysasaga	Date 08/05/2010
---------------	--	--------------------

Title
Sr. Staff Engineering Technician

Approved by (Signature)	Name (Printed Typed)	Date
-------------------------	----------------------	------

Title
FIELD MANAGEROffice
CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

EXHIBIT

A

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

Capitan Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

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
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 30-015-38312	² Pool Code	³ Pool Name HACKBERRY; BONE SPRING, NW
⁴ Property Code	⁵ Property Name SERENE SISTERS 25 FEDERAL	⁶ Well Number 4H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3667.5

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
N	25	18 S	31 E		200	SOUTH	1750	WEST	EDDY

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
D	25	18 S	31 E		400	NORTH	990	WEST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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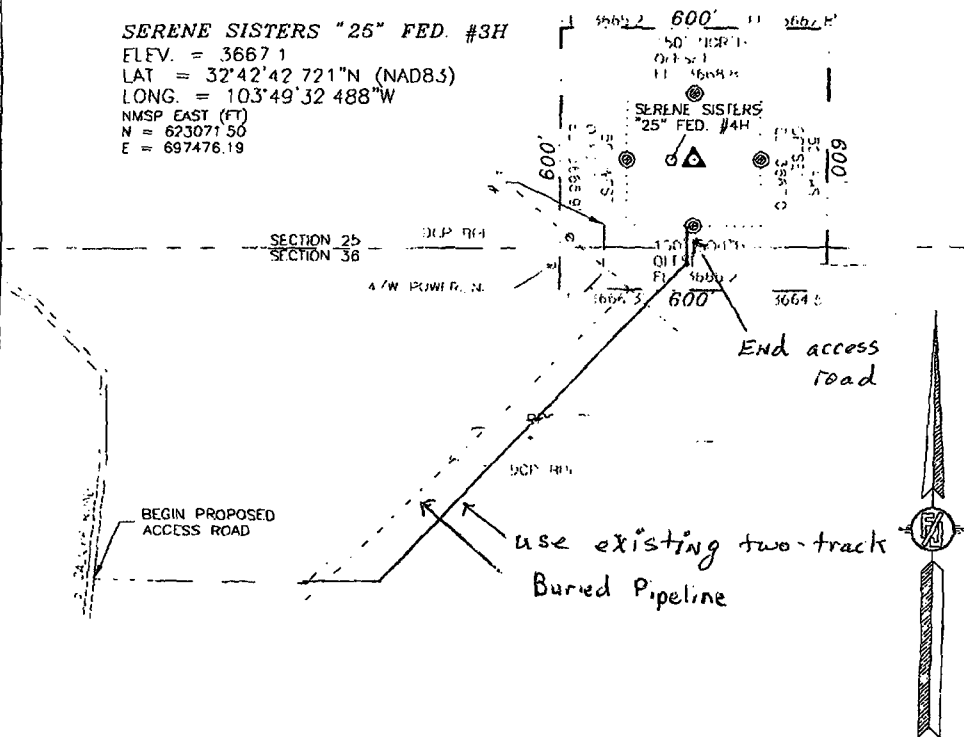
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

BOTTOM OF HOLE = 990' 400' BOTTOM OF HOLE LAT. = 32°43'29.04"N LONG. = 103°49'42.36"W NMSP EAST (FT) N = 627749.30 E = 695608.65	NW CORNER SEC. 25 LAT. = 32°43'32.97"N LONG. = 103°49'54.03"W NMSP EAST (FT) N = 628142.55 E = 695610.97	NE CORNER SEC. 25 LAT. = 32°43'33.11"N LONG. = 103°48'51.80"W NMSP EAST (FT) N = 628181.67 E = 700927.99	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: <i>[Signature]</i> Date: 02/05/2010 Printed Name: STEPHANIE A. YSASAGA
SERENE SISTERS "25" FED. #4H ELEV = 3667.5' LAT = 32°42'42.720"N (NAD83) LONG. = 103°49'33.073"W NMSP EAST (FT) N = 623071.10 E = 697426.22			
SW CORNER SEC. 25 LAT. = 32°42'40.68"N LONG. = 103°49'53.55"W NMSP EAST (FT) N = 601564.84 E = 695677.43 PP	SE CORNER SEC. 25 LAT. = 32°42'40.84"N LONG. = 103°48'51.74"W NMSP EAST (FT) N = 622898.69 E = 700959.68		

PENETRATION POINT: 480' FSL & 990' FWL**PRODUCING AREA****PROJECT AREA**

SECTION 25, TOWNSHIP 18 SOUTH, RANGE 31 EAST, N M P.M
EDDY COUNTY, STATE OF NEW MEXICO

SERENE SISTERS "25" FED. #3H
ELEV. = 3667.1
LAT = 32°42'42.721"N (NAD83)
LONG. = 103°49'32.488"W
NMSP EAST (FT)
N = 623071.50
E = 697476.19



0 150 300 600
SCALE 1" = 300'

DIRECTIONS TO LOCATION
FROM STATE HWY 82 AND CR# 222 GO SOUTH ON CR# 222
(PAVED) 4.0 MILES AND TURN LEFT ON CALICHE CR #249 AND GO
SOUTHEAST 2.8 MILES BEND RIGHT ON CR. #249 AND GO SOUTH
1.35 MILES, TURN LEFT ON CALICHE ROAD AND GO EAST 1.0 MILES,
TURN RIGHT AND GO SOUTH 0.13 MILES TO A PROPOSED ROAD
SURVEY AND FOLLOW FLAGS EAST 477' BEND LEFT AND FOLLOW
FLAGS NE. 983', BEND LEFT AND FOLLOW FLAGS NORTH 110' TO
THE SW COR. OF PROPOSED PAD FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY L.P.
SERENE SISTERS "25" FED. #3H & 4H
LOCATED 200 FT FROM THE SOUTH LINE
AND 1800 FT. FROM THE WEST LINE OF
SECTION 25, TOWNSHIP 18 SOUTH,
RANGE 31 EAST N.M.P.M.
EDDY COUNTY STATE OF NEW MEXICO

SURVEY NO. 148

JULY 8, 2010

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

DRILLING PROGRAM

Devon Energy Production Company, LP

Serene Sisters 25 Federal 4H

Surface Location. 200' FSL & 1750' FWL, Unit N, Sec 25 T18S R31E, Eddy, NM

Bottom hole Location: 400' FNL & 990' FWL, Unit D, Sec 25 T18S R31E, Eddy, NM

1. **Geologic Name of Surface Formation**

a. Permian

2. **Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:**

a. Rustler	810'	Barren
b. Salado	1000'	Barren
c. Salado Base	2205'	Barren
d. Tansil Dolomite	2300'	Barren
e. Yates	2555'	Oil
f. Seven Rivers	2865'	Oil
g. Queen	3515'	Oil
h. Penrose	3750'	Barren
i. San Andres	3975'	Barren
j. Delaware	4775'	Oil/Gas
k. Bone Springs	6590'	Oil/Gas
l. Avalon Shale	6910'	Oil/Gas
m. 1 st Bone Spring Ss	7980'	Oil/Gas
n. 1 st BS Upper Ss pay	8000'	Oil/Gas
o. 1 st BS Middle Ss pay	8090'	Oil/Gas
p. 1 st BS Middle "B" Ss pay	8145'	Oil/Gas
q. 1 st BS Lower Ss pay	8205'	Oil/Gas
r. 2 nd Bone Spring Lime	8270'	Oil/Gas
s. Total Depth	TVD 8240' MD 12914'	

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" casing at 875' and circulating cement back to surface. The fresh water sands will be protected by setting 9 5/8" casing at 3500' and circulating cement to surface. The Delaware intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement above the base of the 9 5/8" casing. All casing is new and API approved.

3. **Casing Program:**

<u>Hole Size</u>	<u>Hole Interval</u>	<u>OD Csg</u>	<u>Casing Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
17 1/2"	0'-875'	13 3/8"	0'-875'	48#	STC	H-40
12 1/4"	875'-3000'	9 5/8"	0'-3000'	36#	LTC	J-55
12 1/4"	3000'-3500'	9 5/8"	3000'-3500'	40#	LTC	J-55
8 3/4"	3500'-7600'	5 1/2"	0-7600'	17#	LTC	P-110HC
8 3/4"	7600'- 12914'	5 1/2"	7600'-12914'	17#	BTC	P-110HC



Weatherford®

Drilling Services

Proposal



devon

SERENE SISTERS 25 FED 4H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

JULY 29, 2010

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com



SERENE SISTERS 25 FED 4H
EDDY CO., NEW MEXICO

SECTION DETAILS									
Sec	MD	Inc	Asl	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0.00	0.00	319.92	0.00	0.00	0.00	0.00	0.00	0.00
2	7667.04	0.00	319.92	7667.04	0.00	0.00	0.00	319.92	0.00
3	8567.04	90.00	319.92	8240.00	438.37	-368.94	10.00	-40.08	495.34
4	9903.19	90.00	360.00	8240.00	1668.15	-817.57	3.00	90.00	1784.00
5	12913.23	90.00	360.00	8240.00	4678.20	-817.57	0.00	0.00	4749.10

WELL DETAILS					
Name	+N/-S	+E/-W	Northing	Easting	Latitude Longitude
Serene Sisters 25 Fed 4H	0.00	0.00	623071.10	697426.22	32°42'42.599N 103°49'33.058W N/A

TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting Shape Point
PBHL	8240.00	4678.20	-817.57	627749.30	696608.65 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

Asimuths to Grid North

True North: -0.27°

Magnetic North: 7.58°

Magnetic Field Strength: 48570 nT

Date: 7/29/2010

Model: IGRF2010

Total Correction to Grid North: 7.58°

SITE DETAILS

Serene Sisters 25 Fed 4H

Site Centre Northing: 623071.10

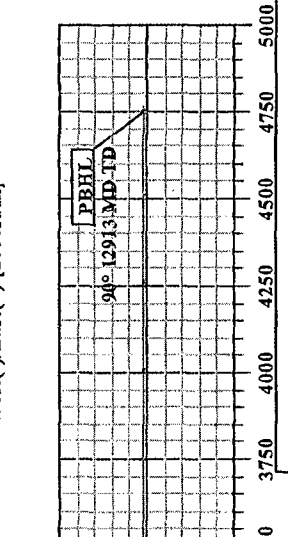
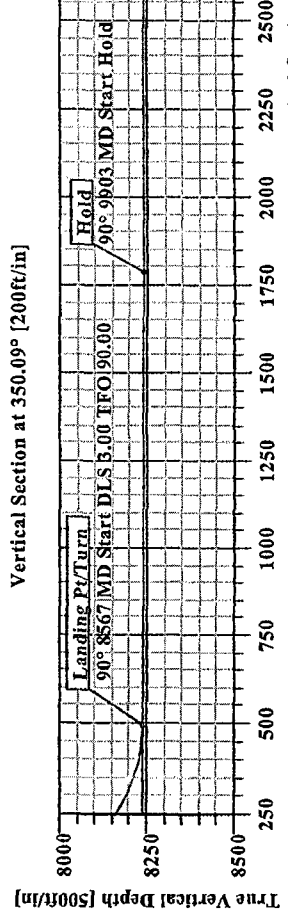
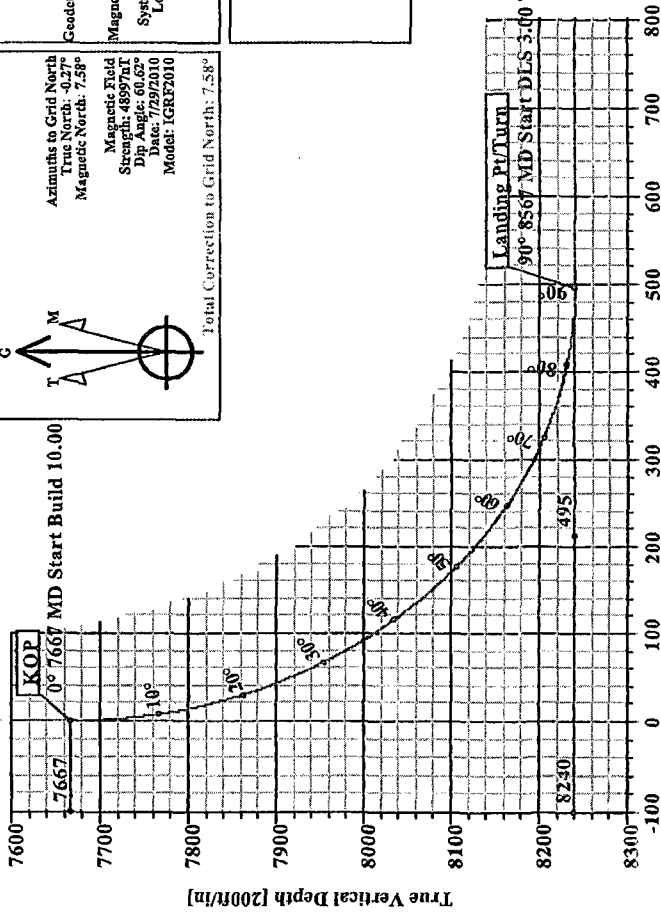
Easting: 697426.22

Ground Level: 3667.50

Positional Uncertainty: 0.80

Convergence: 0.27

KB ELEV: 3692.5
GL ELEV: 3667.5





Weatherford International, Inc.

Directional Plan Report

**Weatherford**

Company: Devon Energy Date: 7/29/2010 Time: 13:05:47 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: Serene Sisters 25 Fed 4H
Site: Serene Sisters 25 Fed 4H Vertical (TVD) Reference: SITE 3692.5
Well: Serene Sisters 25 Fed 4H Section (VS) Reference: Well (0.00N,0.00E,350.09Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Field: Eddy Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

Site: Serene Sisters 25 Fed 4H

Site Position: Northing: 623071.10 ft Latitude: 32 42 42.599 N
From: Map Easting: 697426.22 ft Longitude: 103 49 33.053 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3667.50 ft Grid Convergence: 0.27 deg

Well: Serene Sisters 25 Fed 4H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 623071.10 ft Latitude: 32 42 42.599 N
+E/-W 0.00 ft Easting: 697426.22 ft Longitude: 103 49 33.058 W
Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE
Magnetic Data: 7/29/2010
Field Strength: 48997 nT
Vertical Section: Depth From (TVD)
ft

Height 3692.50 ft

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 7.85 deg
Mag Dip Angle: 60.62 deg
+E/-W Direction
ft deg

0.00 0.00 0.00 350.09

Plan: Plan #1

Date Composed: 7/29/2010
Version: 1
Tied-to: From Surface

Principal: Yes

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	319.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7667.04	0.00	319.92	7667.04	0.00	0.00	0.00	0.00	0.00	319.92	
8567.04	90.00	319.92	8240.00	438.37	-368.94	10.00	10.00	0.00	-40.08	
9903.19	90.00	360.00	8240.00	1668.15	-817.57	3.00	0.00	3.00	90.00	
12913.23	90.00	360.00	8240.00	4678.20	-817.57	0.00	0.00	0.00	0.00	PBHL

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
7600.00	0.00	319.92	7600.00	0.00	0.00	0.00	0.00	623071.10	697426.22	
7667.04	0.00	319.92	7667.04	0.00	0.00	0.00	0.00	623071.10	697426.22	KOP
7700.00	3.30	319.92	7699.98	0.73	-0.61	0.82	10.00	623071.83	697425.61	
7800.00	13.30	319.92	7798.81	11.75	-9.89	13.28	10.00	623082.85	697416.33	
7900.00	23.30	319.92	7893.63	35.74	-30.08	40.38	10.00	623106.84	697396.14	
8000.00	33.30	319.92	7981.57	71.96	-60.56	81.31	10.00	623143.06	697365.66	
8100.00	43.30	319.92	8059.96	119.31	-100.42	134.82	10.00	623190.41	697325.80	
8200.00	53.30	319.92	8126.40	176.36	-148.43	199.28	10.00	623247.46	697277.79	
8300.00	63.30	319.92	8178.89	241.37	-203.14	272.74	10.00	623312.47	697223.08	
8400.00	73.30	319.92	8215.82	312.37	-262.89	352.96	10.00	623383.47	697163.33	
8500.00	83.30	319.92	8236.08	387.19	-325.87	437.51	10.00	623458.29	697100.35	
8567.04	90.00	319.92	8240.00	438.37	-368.94	495.34	10.00	623509.47	697057.28	Landing Pt/Turn
8600.00	90.00	320.90	8240.00	463.77	-389.94	523.97	3.00	623534.87	697036.28	
8700.00	90.00	323.90	8240.00	542.99	-450.94	612.51	3.00	623614.09	696975.28	
8800.00	90.00	326.90	8240.00	625.30	-507.71	703.37	3.00	623696.40	696918.51	
8900.00	90.00	329.90	8240.00	710.47	-560.10	796.28	3.00	623781.57	696866.12	



Weatherford International, Inc.

Directional Plan Report



Weatherford

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Serene Sisters 25 Fed 4H
Well: Serene Sisters 25 Fed 4H
Wellpath: 1

Date: 7/29/2010 Time: 13:05:47 Page: 2
Co-ordinate(NE) Reference: Well: Serene Sisters 25 Fed 4H
Vertical (TVD) Reference: SITE 3692.5
Section (VS) Reference: Well (0.00N,0.00E,350.09Azi)
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
9000.00	90.00	332.90	8240.00	798.26	-607.96	891.00	3.00	623869.36	696818.26	
9100.00	90.00	335.90	8240.00	888.43	-651.15	987.27	3.00	623959.53	696775.07	
9200.00	90.00	338.90	8240.00	980.75	-689.57	1084.82	3.00	624051.85	696736.65	
9300.00	90.00	341.90	8240.00	1074.94	-723.11	1183.38	3.00	624146.04	696703.11	
9400.00	90.00	344.90	8240.00	1170.77	-751.66	1282.69	3.00	624241.87	696674.56	
9500.00	90.00	347.90	8240.00	1267.96	-775.17	1382.47	3.00	624339.06	696651.05	
9600.00	90.00	350.90	8240.00	1366.24	-793.55	1482.45	3.00	624437.34	696632.67	
9700.00	90.00	353.90	8240.00	1465.35	-806.77	1582.36	3.00	624536.45	696619.45	
9800.00	90.00	356.90	8240.00	1565.02	-814.78	1681.92	3.00	624636.12	696611.44	
9900.00	90.00	359.90	8240.00	1664.97	-817.57	1780.86	3.00	624736.07	696608.65	
9903.19	90.00	360.00	8240.00	1668.15	-817.57	1784.00	3.00	624739.25	696608.65	Hold
10000.00	90.00	360.00	8240.00	1764.97	-817.57	1879.36	0.00	624836.07	696608.65	
10100.00	90.00	360.00	8240.00	1864.97	-817.57	1977.87	0.00	624936.07	696608.65	
10200.00	90.00	360.00	8240.00	1964.97	-817.57	2076.38	0.00	625036.07	696608.65	
10300.00	90.00	360.00	8240.00	2064.97	-817.57	2174.88	0.00	625136.07	696608.65	
10400.00	90.00	360.00	8240.00	2164.97	-817.57	2273.39	0.00	625236.07	696608.65	
10500.00	90.00	360.00	8240.00	2264.97	-817.57	2371.90	0.00	625336.07	696608.65	
10600.00	90.00	360.00	8240.00	2364.97	-817.57	2470.41	0.00	625436.07	696608.65	
10700.00	90.00	360.00	8240.00	2464.97	-817.57	2568.91	0.00	625536.07	696608.65	
10800.00	90.00	360.00	8240.00	2564.97	-817.57	2667.42	0.00	625636.07	696608.65	
10900.00	90.00	360.00	8240.00	2664.97	-817.57	2765.93	0.00	625736.07	696608.65	
11000.00	90.00	360.00	8240.00	2764.97	-817.57	2864.43	0.00	625836.07	696608.65	
11100.00	90.00	360.00	8240.00	2864.97	-817.57	2962.94	0.00	625936.07	696608.65	
11200.00	90.00	360.00	8240.00	2964.97	-817.57	3061.45	0.00	626036.07	696608.65	
11300.00	90.00	360.00	8240.00	3064.97	-817.57	3159.95	0.00	626136.07	696608.65	
11400.00	90.00	360.00	8240.00	3164.97	-817.57	3258.46	0.00	626236.07	696608.65	
11500.00	90.00	360.00	8240.00	3264.97	-817.57	3356.97	0.00	626336.07	696608.65	
11600.00	90.00	360.00	8240.00	3364.97	-817.57	3455.48	0.00	626436.07	696608.65	
11700.00	90.00	360.00	8240.00	3464.97	-817.57	3553.98	0.00	626536.07	696608.65	
11800.00	90.00	360.00	8240.00	3564.97	-817.57	3652.49	0.00	626636.07	696608.65	
11900.00	90.00	360.00	8240.00	3664.97	-817.57	3751.00	0.00	626736.07	696608.65	
12000.00	90.00	360.00	8240.00	3764.97	-817.57	3849.50	0.00	626836.07	696608.65	
12100.00	90.00	360.00	8240.00	3864.97	-817.57	3948.01	0.00	626936.07	696608.65	
12200.00	90.00	360.00	8240.00	3964.97	-817.57	4046.52	0.00	627036.07	696608.65	
12300.00	90.00	360.00	8240.00	4064.97	-817.57	4145.02	0.00	627136.07	696608.65	
12400.00	90.00	360.00	8240.00	4164.97	-817.57	4243.53	0.00	627236.07	696608.65	
12500.00	90.00	360.00	8240.00	4264.97	-817.57	4342.04	0.00	627336.07	696608.65	
12600.00	90.00	360.00	8240.00	4364.97	-817.57	4440.55	0.00	627436.07	696608.65	
12700.00	90.00	360.00	8240.00	4464.97	-817.57	4539.05	0.00	627536.07	696608.65	
12800.00	90.00	360.00	8240.00	4564.97	-817.57	4637.56	0.00	627636.07	696608.65	
12900.00	90.00	360.00	8240.00	4664.97	-817.57	4736.07	0.00	627736.07	696608.65	
12913.23	90.00	360.00	8240.00	4678.20	-817.57	4749.10	0.00	627749.30	696608.65	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
PBHL			8240.00	4678.20	-817.57	627749.30	696608.65	32 43 28.928 N	103 49 42.366 W



Weatherford International, Inc.

Directional Plan Report



Weatherford

Company: Devon Energy	Date: 7/29/2010	Time: 13:05:47	Page: 3
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Serene Sisters 25 Fed 4H	
Site: Serene Sisters 25 Fed 4H	Vertical (TVD) Reference:	SITE 3692.5	
Well: Serene Sisters 25 Fed 4H	Section (VS) Reference:	Well (0.00N,0.00E,350.09Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7667.04	7667.04	KOP
8567.04	8240.00	Landing PI/Turn
9903.19	8240.00	Hold
12913.23	8240.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

JAMES BRUCE
ATTORNEY AT LAW

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(505) 660-6612 (Cell)
(505) 982-2151 (Fax)

jamesbruc@aol.com

January 12, 2011

Certified Mail – Return Receipt Requested

To: Persons on Exhibit 1

Ladies and gentlemen:

Devon Energy Production Company, L.P. has filed two application with the New Mexico Oil Conservation Division seeking unorthodox oil well locations in the Bone Spring formation in the E $\frac{1}{2}$ W $\frac{1}{2}$ and W $\frac{1}{2}$ W $\frac{1}{2}$ of Section 25, Township 18 South, Range 31 East, NMPM, Eddy County, New Mexico. Copies of the applications are enclosed. You own an interest in the offsetting N $\frac{1}{2}$ NW $\frac{1}{4}$ of Section 36. If you object to the application, you must notify the Division in writing no later than 20 days from the date of this letter (the Division's address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505). Failure to object will preclude you from contesting this matter at a later date.

Very truly yours,



James Bruce

Attorney for Devon Energy Production Company, L.P.

EXHIBIT



Exhibit 1

COG Operating LLC
Suite 1300
550 West Texas
Midland, Texas 79701

Nadel and Gussman HEYCO, LLC
P.O. Box 1933
Roswell, New Mexico 88202