

Form 3160-3
(March 2012)

SECRETARY'S POTASH

OCD Hobbs

HOBBS OCD

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 29 2013

APPLICATION FOR PERMIT TO DRILL OR REENTER

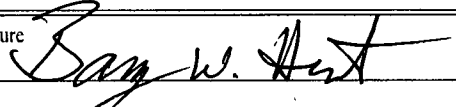
RECEIVED

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. BHL: NM-34850 SHL: 84810	
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 COMPANY, L.P.		7. If Unit or CA Agreement, Name and No.	
3a. Address 333 W. SHERIDAN OKLAHOMA CITY, OK. 73102		8. Lease Name and Well No. <40034> SYLVITE 22 FED COM 1H	
3b. Phone No. (include area code) <6137> (405) 552-4524		9. API Well No. 30-025-41,368	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 1050 FNL & 330 FEL At proposed prod. zone 550 FNL & 330 FWL		10. Field and Pool, GEM, DELAWARE, EAST	
14. Distance in miles and direction from nearest town or post office* 15.25 MILES SOUTHEAST OF MALJAMAR, NM		11. Sec., T. R. M. or Blk. and Survey or Area SECTION 22, T. 19 S., R. 33 E.	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330'	16. No. of acres in lease 160 680	17. Spacing Unit dedicated to this well 160	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 240' (BHL) 50' (SHL)	19. Proposed Depth MD: 12243' PH 8049' TVD: 7840'	20. BLM/BIA Bond No. on file NMB-000801 CO-1104	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3647' GL	22. Approximate date work will start*	23. Estimated duration 30 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) BARRY W. HUNT	Date 8/9/12
Title PERMIT AGENT FOR DEVON ENERGY PRODUCTION COMPANY, L.P.		
Approved by (Signature) /s/Aden L. Seidlitz	Name (Printed/Typed)	Date AUG 21 2013
Title STATE DIRECTOR	Office NM STATE 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.

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

KR
08/30/13
Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVALSEP 03 2013 

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB No. 1004-0135
Expires: January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
Devon Energy Production Company, L.P.3a. Address
P.O. Box 250, Artesia, NM 88211 (Attn: Joe Lara)3b. Phone No. (include area code)
575-748-0163

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

The Sylville 22 Fed #1H is located 1050 FNL and 330 FEL in Section 22, T19S-R33E.
The Sylville 22 Fed #2H is located 1100 FNL and 330 FEL in Section 22, T19S-R33E.

5. Lease Serial No.
NM-84810

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
Sylville 22 Fed #1H & #2H

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State
Lea County, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

- | | | | |
|---|---|--|--|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other <u>On-Lease Gas Line</u> |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

To lay a buried 4" SDR-11 poly gas lines from the Sylville 22 Fed #1H located 1050 FNL and 330 FEL in Section 22, T19S-R33E and the Sylville 22 Fed #2H located 1100 FNL and 330 FEL in Section 22, T19S-R33E to the Azurite 22 Fed #2H well located in the NW/4NE/4 of Section 22, T19S-R33E.

The line will stay south and parallel to the proposed road between the Sylville 22 Fed #1H and #2H and the Azurite 22 Fed #2H wells.

This line is expected to carry 1 MMCFD at 75 PSI.

The spacing for said line is 30 feet wide by 1630.45 feet (98.82 rods), consisting of 1.123 acres.

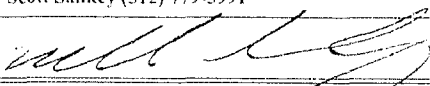
See attached plat.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Scott Sankey (512) 779-3991

Title Authorized Agent

Signature



Date

09/28/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by /s/Aden L. Seidlitz

STATE DIRECTOR

Date AUG 21 2013

Conditions of approval, if any, are attached. Approval of this notice 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.

Office NM STATE OFFICE

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)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this

form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or

present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 USC. 181 et seq., 351 et seq., 25 USC. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

This information is being collected to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

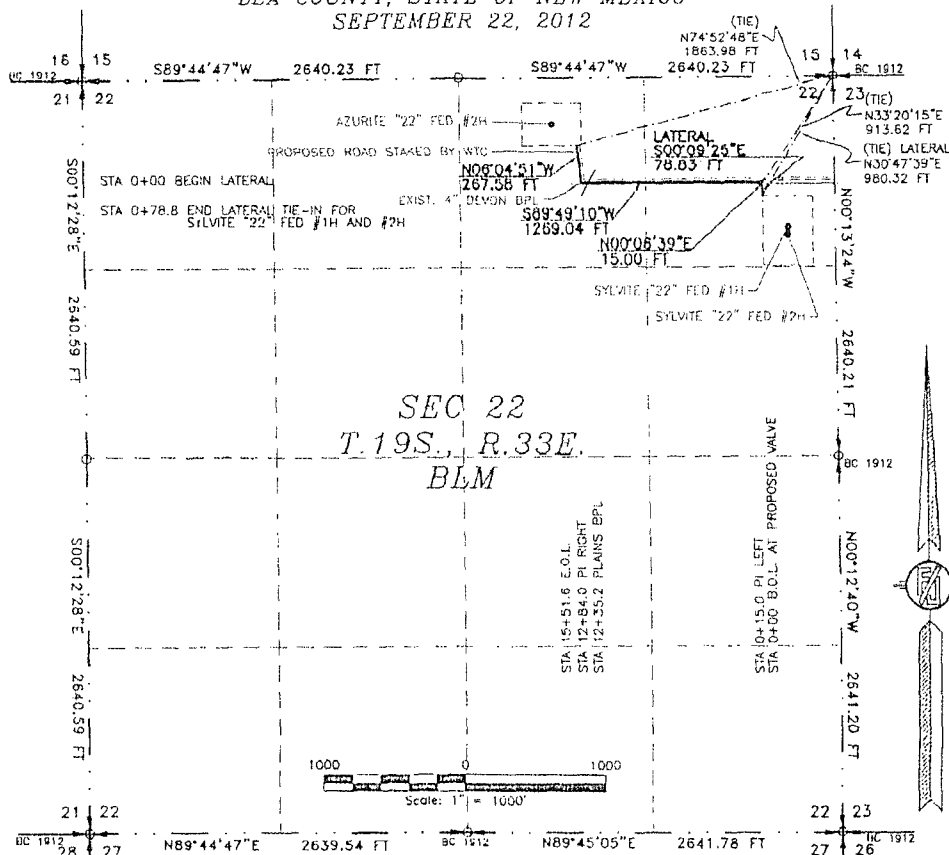
BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0135), Bureau Information Collection Clearance Officer, (WO-630), Mail Stop 401 L.S. 1849 C St., N.W., Washington D.C. 20240

4" POLY SDR 11 BURIED GAS LINE FROM PROPOSED VALVE TO SYLVITE "22"
FED #1H AND #2H AND AZURITE "22" FED #2H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 22, TOWNSHIP 19 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SEPTEMBER 22, 2012



SEC 22
T. 19S. R. 33E.
BLM

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 22, TOWNSHIP 19 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NE/4 NE/4 OF SAID SECTION 22, TOWNSHIP 19 SOUTH, RANGE 33 EAST, N.M.P.M., WHENCE THE NORTHEAST CORNER OF SAID SECTION 22, TOWNSHIP 19 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS N33°20'15"E, A DISTANCE OF 913.62 FEET;

THENCE N00°06'39"E A DISTANCE OF 15.00 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE S89°49'10"W A DISTANCE OF 1269.04 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N06°04'51"W A DISTANCE OF 267.58 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 22, TOWNSHIP 19 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS N74°52'48"E, A DISTANCE OF 1863.98 FEET;

SAID STRIP OF LAND BEING 1551.62 FEET OR 94.04 RODS IN LENGTH, CONTAINING 1.069 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NE/4 830.28 L.F. 50.32 RODS 0.572 ACRES
NW/4 NE/4 721.34 L.F. 43.72 RODS 0.497 ACRES

LATERAL TO SYLVITE "22" FED #1H AND #2H

BEGINNING AT A POINT WITHIN THE NE/4 NE/4 OF SAID SECTION 22, TOWNSHIP 19 SOUTH, RANGE 33 EAST, N.M.P.M., WHENCE THE NORTHEAST CORNER OF SAID SECTION 22, TOWNSHIP 19 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS N33°20'15"E, A DISTANCE OF 913.62 FEET;

THENCE S00°09'25"E A DISTANCE OF 78.83 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 22, TOWNSHIP 19 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS N30°47'39"E, A DISTANCE OF 980.32 FEET;

SAID STRIP OF LAND BEING 78.83 FEET OR 4.78 RODS IN LENGTH, CONTAINING 0.054 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NE/4 78.83 L.F. 4.78 RODS 0.054 ACRES

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 25 DAY OF SEPTEMBER 2012

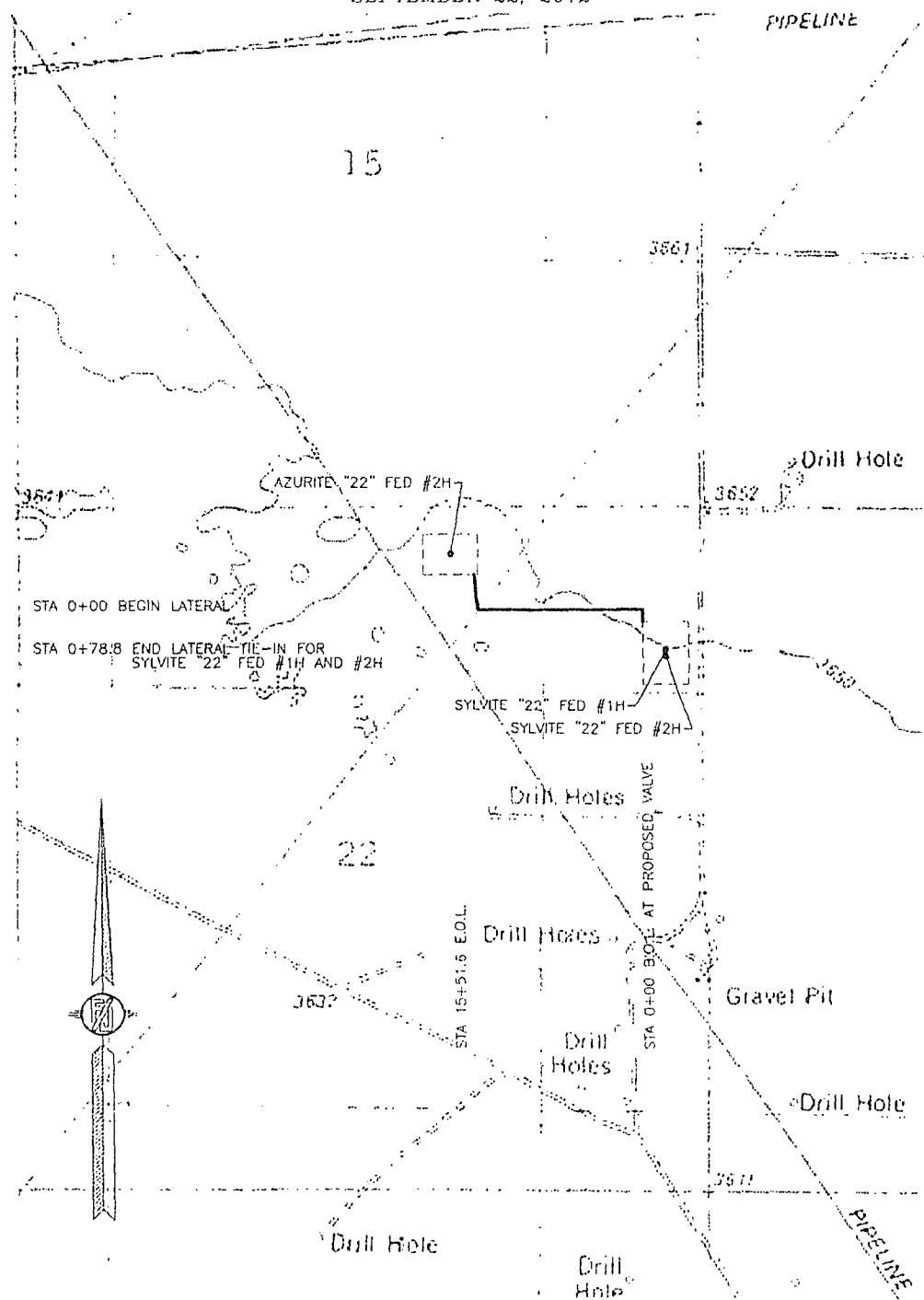
Filimon F. Jaramillo
FILIMON F. JARAMILLO PLS. 12797
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 1286 1-3

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

4" POLY SDR 11 BURIED GAS LINE FROM PROPOSED VALVE TO SYLVITE "22"
FED #1H AND #2H AND AZURITE "22" FED #2H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 22, TOWNSHIP 19 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SEPTEMBER 22, 2012

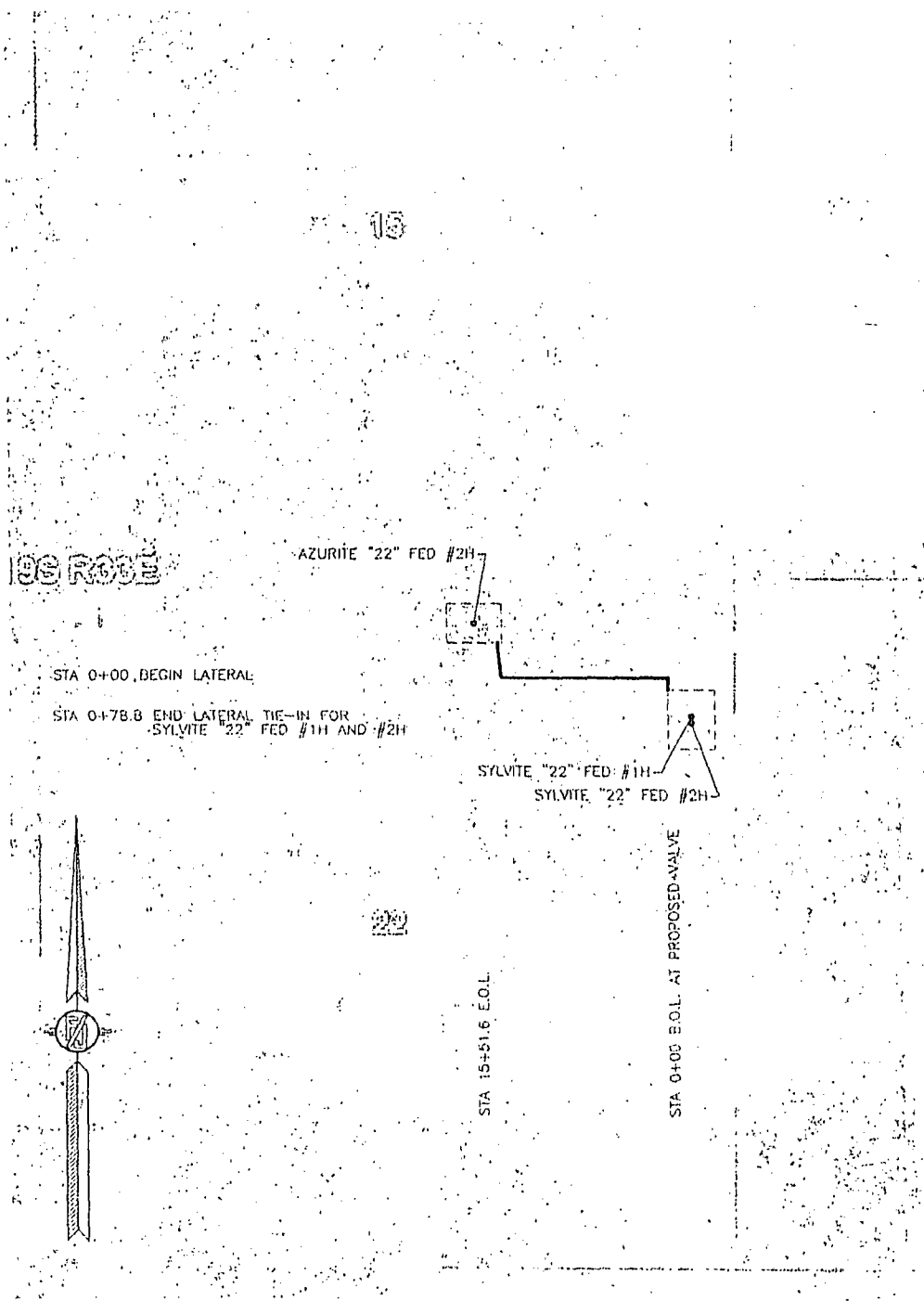


SURVEY NO. 1286 2-3

MADRON SURVEYING, INC. 301 SOUTH CENTRAL (575) 708-9211 CARLSBAD, NEW MEXICO

4" POLY SDR 11 BURIED GAS LINE FROM PROPOSED VALVE TO SYLVITE "22"
FED #1H AND #2H AND AZURITE "22" FED #2H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 22, TOWNSHIP 19 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SEPTEMBER 22, 2012



SURVEY NO. 1286 3-3

MADRON SURVEYING, INC. 301 SOUTH MAIN (575) 706-9767 CARLSBAD, NEW MEXICO

DEVON ENERGY PRODUCTION, L. P.
DRILLING PLAN

SYLVITE 22 FED COM 1H
SHL: 1050 FNL & 330 FEL
BHL: 550 FNL & 330 FWL
Section 22-19S-33E
LEA County, NM

The elevation of the unprepared ground is 3647' feet above sea level.

The geologic name of the surface formation is Quaternary - Alluvium.

A rotary rig will be utilized to drill the well.

Proposed total depth is: MD: 12243'. TVD: 7840'.

Estimated tops of important geologic markers:

Quaternary – Alluvium	Surface*
Rustler	1423'
Top of Salt	1749'
Salado	1807'
Base of Salt	3096'
Yates	3302'
Seven Rivers	3720'
Queen	4303'
Cherry Canyon	5200'
Brushy Canyon	6269'
TVD	7840' (145 degree F)

*Water anticipated at 200 feet.

Estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered:

Yates	Oil (1453 psi)
Seven Rivers	Oil (1637 psi)
Queen	Oil (1893 psi)
Cherry Canyon	Oil (2288 psi)
Brushy Canyon	Oil (2758 psi)
TVD	Oil BHP 3450 psi

Sylvite 22 Fed Com 1H – APD DRILLING PLAN

1.30.2013 ETC

Pressure Control Equipment:

BOP DESIGN: The BOP system used to drill the intermediate and production holes will consist of a 13-5/8" 3M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the prior casing shoe.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

SW
COA
Devon requests a variance to use a flexible line with flanged ends between the BOP and choke manifold (choke line). The line will be kept straight as possible with minimal turns.

Casing Program (All new casing)

<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' – 1,500'	13.375"	0' – 1,500'	54.5#	BTC	J-55
12-1/4"	1,500' – 3,150'	9.625"	0' – 3,150'	40#	LTC	J-55
8-3/4"	3,150' – 7,000'	5.5"	0 – 7,000	17#	LTC	HCP-110
8-3/4"	7,000' -12,243'	5.5"	7,000– 12,243	17#	BTC	HCP-110

Max TVD: 7,840 ft

An 8-3/4" pilot hole will be drilled to 8,049 ft, and plugged back to KOP:

1st Stage 250 sks. Class H @ 16.4#/gal +0.25% CFR-3+ 0.1% HR-800.

2nd Stage 275 sks. Class H @ 17.5 #/Gal + 0.5% CFR-3 + 0.1 % HR -800

Design Factors:

1st stage 1.07 cf/sk
2nd stage 0.95 cf/sk > per Kurtis Schmitz email 7-29-13

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
13-3/8" J-55 54.5#	1.61	3.89	11.12
9-5/8" 40# J-55 LTC	1.57	2.41	4.13
5-1/2" 17# HCP-110 LTC	2.03	2.90	2.05
5-1/2" 17# HCP-110 BTC	2.62	3.25	5.79

The maximum possible collapse load that the intermediate casing will experience will result from evacuated casing with the pore pressure exerting a collapse load at TD. There is no potential for the intermediate casing to be used as a production string. Note: only new casing will be utilized

Cementing Program (all cement volumes based on at least 25% excess)

13-3/8" Surface

1000 ft Lead: 800 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.1% Fresh Water, 13.5 ppg

Yield: 1.75 cf/sk

TOC @ surface

500 ft Tail: 515 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg

Yield: 1.35 cf/sk

9-5/8" Intermediate

2150 ft. Lead: 600 sacks (65:35) Class C Cement:Poz (Fly Ash); + 5% bwow Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 6% bwoc Bentonite + 70.9% Fresh Water, 12.9 ppg

Yield: 1.85 cf/sk

TOC @ surface

1000 ft Tail: 360 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Water, 14.8 ppg

Yield: 1.33 cf/sk

5-1/2" Production

1000 ft 1st Stage

Lead: 170 sacks (65:35) Class H Cement:Poz (Fly Ash) + 6% bwoc Bentonite + 0.2% bwoc HR-601 + 74.1% Fresh Water, 12.5 ppg

Yield: 1.95 cf/sk

5243 ft Tail: 1360 sacks (50:50) Class H Cement:Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg

Yield: 1.22 cf/sk

*See
COA*

DV TOOL at 6,000 ft

5000 ft 2nd Stage

Lead: 550 sacks Class C Cement + 3% bwoc Econolite + 0.125 lbs/sack Poly-E-Flake + 82.4% Fresh Water, 11.4 ppg

Yield: 2.87 cf/sk

1000 ft. Tail: 250 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water, 14.8 ppg

Yield: 1.33cf/sk

TOC for Production string 2,650 ft.

TOC for All Strings:

Surface: 0'

Intermediate: 0'

Production: 2,650'

ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA.

Mud Program:

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' – 1,500'	8.4 – 9.0	30 – 34	N/C	FW
1,500' – 3,150'	9.8 – 10.0	28 – 32	N/C	Brine
3,150' – 12,243'	8.6 – 9.0	28 – 32	N/C-12	FW

See COA - mud monitoring, mud products on location for abnormal conditions.

LOGGING, CORING, AND TESTING PROGRAM:

- a. Drill stem tests will be based on geological sample shows.
- b. If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
- c. The open hole electrical logging program will be:
 1. Total depth to intermediate casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper.
 2. Total Depth to Surface Compensated Neutron with Gamma Ray.
 3. No coring program is planned.
 4. Additional testing will be initiated subsequent to setting the 5 ½" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 5 ½" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.

See COA

POTENTIAL HAZARDS:

- a. No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area; therefore, no H2S is anticipated. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. **Estimated BHP 3450 and estimated BHT 145.**

See COA

ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

- a. Road and location construction will begin after BLM has approved the APD. Anticipated spud date will be soon after BLM approval and as soon as a rig is available. Move in operations and drilling is expected to take 32 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flowlines in order to place well on production.



Devon Energy, Inc.

Lea County (NAD83)

Sylvite 22 Fed

#1H

OH

Plan: Plan #1

PathfinderX & Y Report

18 June, 2012



A Schlumberger Company



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 19 @ 3666.0usft (McVay 8)
Site:	Sylvite 22 Fed	MD Reference:	KB = 19 @ 3666.0usft (McVay 8)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Project	Lea County (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sylvite 22 Fed		
Site Position:		Northing:	600,922.000 usft
From:	Map	Easting:	753,677.200 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 39' 0.310 N
		Longitude:	103° 38' 36.366 W
		Grid Convergence:	0.37 °

Well	#1H					
Well Position	+N/-S	0.0 usft	Northing:	600,922.000 usft	Latitude:	32° 39' 0.310 N
	+E/-W	0.0 usft	Easting:	753,677.200 usft	Longitude:	103° 38' 36.366 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,647.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/18/2012	7.53	60.54	48,763

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	275.93

Survey Tool Program		Date 6/18/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	12,243.4	Plan #1 (OH)	Pathfinder	Pathfinder MWD



Pathfinder
PathfinderX & Y Report



A Schlumberger Company

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 19 @ 3666.0usft (McVay 8)
Site:	Sylvite 22 Fed	MD Reference:	KB = 19 @ 3666.0usft (McVay 8)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.0	0.00	0.00	0.0	-3,666.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
100.0	0.00	0.00	100.0	-3,566.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
200.0	0.00	0.00	200.0	-3,466.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
300.0	0.00	0.00	300.0	-3,366.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
400.0	0.00	0.00	400.0	-3,266.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
500.0	0.00	0.00	500.0	-3,166.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
600.0	0.00	0.00	600.0	-3,066.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
700.0	0.00	0.00	700.0	-2,966.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
800.0	0.00	0.00	800.0	-2,866.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
900.0	0.00	0.00	900.0	-2,766.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
1,000.0	0.00	0.00	1,000.0	-2,666.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
1,100.0	0.00	0.00	1,100.0	-2,566.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
1,200.0	0.00	0.00	1,200.0	-2,466.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
1,300.0	0.00	0.00	1,300.0	-2,366.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
1,400.0	0.00	0.00	1,400.0	-2,266.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
1,423.0	0.00	0.00	1,423.0	-2,243.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
Rustler											
1,500.0	0.00	0.00	1,500.0	-2,166.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
1,600.0	0.00	0.00	1,600.0	-2,066.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
1,700.0	0.00	0.00	1,700.0	-1,966.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
1,800.0	0.00	0.00	1,800.0	-1,866.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
1,807.0	0.00	0.00	1,807.0	-1,859.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
Salado											
1,900.0	0.00	0.00	1,900.0	-1,766.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
2,000.0	0.00	0.00	2,000.0	-1,666.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
2,100.0	0.00	0.00	2,100.0	-1,566.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
2,200.0	0.00	0.00	2,200.0	-1,466.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	



Pathfinder
PathfinderX & Y Report



A Schlumberger Company

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 19 @ 3666.0usft (McVay 8)
Site:	Sylvite 22 Fed	MD Reference:	KB = 19 @ 3666.0usft (McVay 8)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V: Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,300.0	0.00	0.00	2,300.0	-1,366.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
2,400.0	0.00	0.00	2,400.0	-1,266.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
2,500.0	0.00	0.00	2,500.0	-1,166.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
2,600.0	0.00	0.00	2,600.0	-1,066.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
2,700.0	0.00	0.00	2,700.0	-966.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
2,800.0	0.00	0.00	2,800.0	-866.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
2,900.0	0.00	0.00	2,900.0	-766.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
3,000.0	0.00	0.00	3,000.0	-666.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
3,100.0	0.00	0.00	3,100.0	-566.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
3,200.0	0.00	0.00	3,200.0	-466.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
3,300.0	0.00	0.00	3,300.0	-366.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
3,302.0	0.00	0.00	3,302.0	-364.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
Yates											
3,400.0	0.00	0.00	3,400.0	-266.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
3,500.0	0.00	0.00	3,500.0	-166.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
3,600.0	0.00	0.00	3,600.0	-66.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
3,700.0	0.00	0.00	3,700.0	34.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
3,720.0	0.00	0.00	3,720.0	54.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
Seven Rivers											
3,800.0	0.00	0.00	3,800.0	134.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
3,900.0	0.00	0.00	3,900.0	234.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
4,000.0	0.00	0.00	4,000.0	334.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
4,100.0	0.00	0.00	4,100.0	434.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
4,200.0	0.00	0.00	4,200.0	534.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
4,300.0	0.00	0.00	4,300.0	634.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
4,303.0	0.00	0.00	4,303.0	637.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
Queen											
4,400.0	0.00	0.00	4,400.0	734.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company: Devon Energy, Inc.
Project: Lea County (NAD83)
Site: Sylville 22 Fed
Well: #1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 19 @ 3666.0usft (McVay 8)
MD Reference: KB = 19 @ 3666.0usft (McVay 8)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
4,500.0	0.00	0.00	4,500.0	834.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
4,600.0	0.00	0.00	4,600.0	934.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
4,700.0	0.00	0.00	4,700.0	1,034.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
4,800.0	0.00	0.00	4,800.0	1,134.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
4,900.0	0.00	0.00	4,900.0	1,234.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
5,000.0	0.00	0.00	5,000.0	1,334.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
5,100.0	0.00	0.00	5,100.0	1,434.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
5,200.0	0.00	0.00	5,200.0	1,534.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
Cherry Canyon										
5,300.0	0.00	0.00	5,300.0	1,634.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
5,400.0	0.00	0.00	5,400.0	1,734.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
5,500.0	0.00	0.00	5,500.0	1,834.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
5,600.0	0.00	0.00	5,600.0	1,934.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
5,700.0	0.00	0.00	5,700.0	2,034.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
5,800.0	0.00	0.00	5,800.0	2,134.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
5,900.0	0.00	0.00	5,900.0	2,234.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
6,000.0	0.00	0.00	6,000.0	2,334.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
6,100.0	0.00	0.00	6,100.0	2,434.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
6,200.0	0.00	0.00	6,200.0	2,534.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
6,269.0	0.00	0.00	6,269.0	2,603.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
Brushy Canyon										
6,300.0	0.00	0.00	6,300.0	2,634.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
6,400.0	0.00	0.00	6,400.0	2,734.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
6,500.0	0.00	0.00	6,500.0	2,834.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
6,600.0	0.00	0.00	6,600.0	2,934.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
6,700.0	0.00	0.00	6,700.0	3,034.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20
6,800.0	0.00	0.00	6,800.0	3,134.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20



Pathfinder
PathfinderX & Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 19 @ 3666.0usft (McVay 8)
Site:	Sylvite 22 Fed	MD Reference:	KB = 19 @ 3666.0usft (McVay 8)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi.(azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
6,900.0	0.00	0.00	6,900.0	3,234.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
7,000.0	0.00	0.00	7,000.0	3,334.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
7,100.0	0.00	0.00	7,100.0	3,434.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
7,200.0	0.00	0.00	7,200.0	3,534.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
7,267.0	0.00	0.00	7,267.0	3,601.0	0.0	0.0	0.0	0.00	600,922.00	753,677.20	
7,300.0	3.30	275.93	7,300.0	3,634.0	0.1	-0.9	1.0	10.00	600,922.10	753,676.26	
7,350.0	8.30	275.93	7,349.7	3,683.7	0.6	-6.0	6.0	10.00	600,922.62	753,671.23	
7,400.0	13.30	275.93	7,398.8	3,732.8	1.6	-15.3	15.4	10.00	600,923.59	753,661.91	
7,450.0	18.30	275.93	7,446.9	3,780.9	3.0	-28.8	29.0	10.00	600,925.00	753,648.38	
7,500.0	23.30	275.93	7,493.6	3,827.6	4.8	-46.5	46.7	10.00	600,926.83	753,630.72	
7,550.0	28.30	275.93	7,538.6	3,872.6	7.1	-68.1	68.5	10.00	600,929.08	753,609.09	
7,600.0	33.30	275.93	7,581.6	3,915.6	9.7	-93.6	94.1	10.00	600,931.72	753,583.63	
7,650.0	38.30	275.93	7,622.1	3,956.1	12.7	-122.7	123.3	10.00	600,934.75	753,554.55	
7,700.0	43.30	275.93	7,659.9	3,993.9	16.1	-155.1	156.0	10.00	600,938.12	753,522.06	
7,750.0	48.30	275.93	7,694.8	4,028.8	19.8	-190.8	191.8	10.00	600,941.83	753,486.42	
7,800.0	53.30	275.93	7,726.4	4,060.4	23.8	-229.3	230.5	10.00	600,945.83	753,447.89	
7,850.0	58.30	275.93	7,754.5	4,088.5	28.1	-270.4	271.9	10.00	600,950.10	753,406.77	
7,900.0	63.30	275.93	7,778.9	4,112.9	32.6	-313.8	315.5	10.00	600,954.61	753,363.37	
7,950.0	68.30	275.93	7,799.4	4,133.4	37.3	-359.2	361.1	10.00	600,959.33	753,318.03	
8,000.0	73.30	275.93	7,815.8	4,149.8	42.2	-406.1	408.3	10.00	600,964.21	753,271.07	
8,050.0	78.30	275.93	7,828.1	4,162.1	47.2	-454.3	456.8	10.00	600,969.22	753,222.88	
8,100.0	83.30	275.93	7,836.0	4,170.0	52.3	-503.4	506.1	10.00	600,974.32	753,173.80	
8,150.0	88.30	275.93	7,839.7	4,173.7	57.5	-553.0	556.0	10.00	600,979.47	753,124.22	
8,167.0	90.00	275.93	7,840.0	4,174.0	59.2	-569.9	573.0	10.00	600,981.22	753,107.32	
8,200.0	90.00	275.93	7,840.0	4,174.0	62.6	-602.7	606.0	0.00	600,984.64	753,074.49	
8,300.0	90.00	275.93	7,840.0	4,174.0	73.0	-702.2	706.0	0.00	600,994.97	752,975.02	
8,400.0	90.00	275.93	7,840.0	4,174.0	83.3	-801.6	806.0	0.00	601,005.31	752,875.56	



Pathfinder
PathfinderX & Y Report



A Schlumberger Company

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 19 @ 3666.0usft (McVay 8)
Site:	Sylvite 22 Fed	MD Reference:	KB = 19 @ 3666.0usft (McVay 8)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
8,500.0	90.00	275.93	7,840.0	4,174.0	93.6	-901.1	906.0	0.00	601,015.65	752,776.10	
8,600.0	90.00	275.93	7,840.0	4,174.0	104.0	-1,000.6	1,006.0	0.00	601,025.98	752,676.63	
8,700.0	90.00	275.93	7,840.0	4,174.0	114.3	-1,100.0	1,106.0	0.00	601,036.32	752,577.17	
8,800.0	90.00	275.93	7,840.0	4,174.0	124.7	-1,199.5	1,206.0	0.00	601,046.66	752,477.70	
8,900.0	90.00	275.93	7,840.0	4,174.0	135.0	-1,299.0	1,306.0	0.00	601,056.99	752,378.24	
9,000.0	90.00	275.93	7,840.0	4,174.0	145.3	-1,398.4	1,406.0	0.00	601,067.33	752,278.77	
9,100.0	90.00	275.93	7,840.0	4,174.0	155.7	-1,497.9	1,506.0	0.00	601,077.67	752,179.31	
9,200.0	90.00	275.93	7,840.0	4,174.0	166.0	-1,597.4	1,606.0	0.00	601,088.00	752,079.85	
9,300.0	90.00	275.93	7,840.0	4,174.0	176.3	-1,696.8	1,706.0	0.00	601,098.34	751,980.38	
9,400.0	90.00	275.93	7,840.0	4,174.0	186.7	-1,796.3	1,806.0	0.00	601,108.68	751,880.92	
9,500.0	90.00	275.93	7,840.0	4,174.0	197.0	-1,895.7	1,906.0	0.00	601,119.02	751,781.45	
9,600.0	90.00	275.93	7,840.0	4,174.0	207.4	-1,995.2	2,006.0	0.00	601,129.35	751,681.99	
9,700.0	90.00	275.93	7,840.0	4,174.0	217.7	-2,094.7	2,106.0	0.00	601,139.69	751,582.52	
9,800.0	90.00	275.93	7,840.0	4,174.0	228.0	-2,194.1	2,206.0	0.00	601,150.03	751,483.06	
9,900.0	90.00	275.93	7,840.0	4,174.0	238.4	-2,293.6	2,306.0	0.00	601,160.36	751,383.59	
10,000.0	90.00	275.93	7,840.0	4,174.0	248.7	-2,393.1	2,406.0	0.00	601,170.70	751,284.13	
10,100.0	90.00	275.93	7,840.0	4,174.0	259.0	-2,492.5	2,506.0	0.00	601,181.04	751,184.67	
10,200.0	90.00	275.93	7,840.0	4,174.0	269.4	-2,592.0	2,606.0	0.00	601,191.37	751,085.20	
10,300.0	90.00	275.93	7,840.0	4,174.0	279.7	-2,691.5	2,706.0	0.00	601,201.71	750,985.74	
10,400.0	90.00	275.93	7,840.0	4,174.0	290.0	-2,790.9	2,806.0	0.00	601,212.05	750,886.27	
10,500.0	90.00	275.93	7,840.0	4,174.0	300.4	-2,890.4	2,906.0	0.00	601,222.38	750,786.81	
10,600.0	90.00	275.93	7,840.0	4,174.0	310.7	-2,989.9	3,006.0	0.00	601,232.72	750,687.34	
10,700.0	90.00	275.93	7,840.0	4,174.0	321.1	-3,089.3	3,106.0	0.00	601,243.06	750,587.88	
10,800.0	90.00	275.93	7,840.0	4,174.0	331.4	-3,188.8	3,206.0	0.00	601,253.39	750,488.42	
10,900.0	90.00	275.93	7,840.0	4,174.0	341.7	-3,288.2	3,306.0	0.00	601,263.73	750,388.95	
11,000.0	90.00	275.93	7,840.0	4,174.0	352.1	-3,387.7	3,406.0	0.00	601,274.07	750,289.49	
11,100.0	90.00	275.93	7,840.0	4,174.0	362.4	-3,487.2	3,506.0	0.00	601,284.40	750,190.02	



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

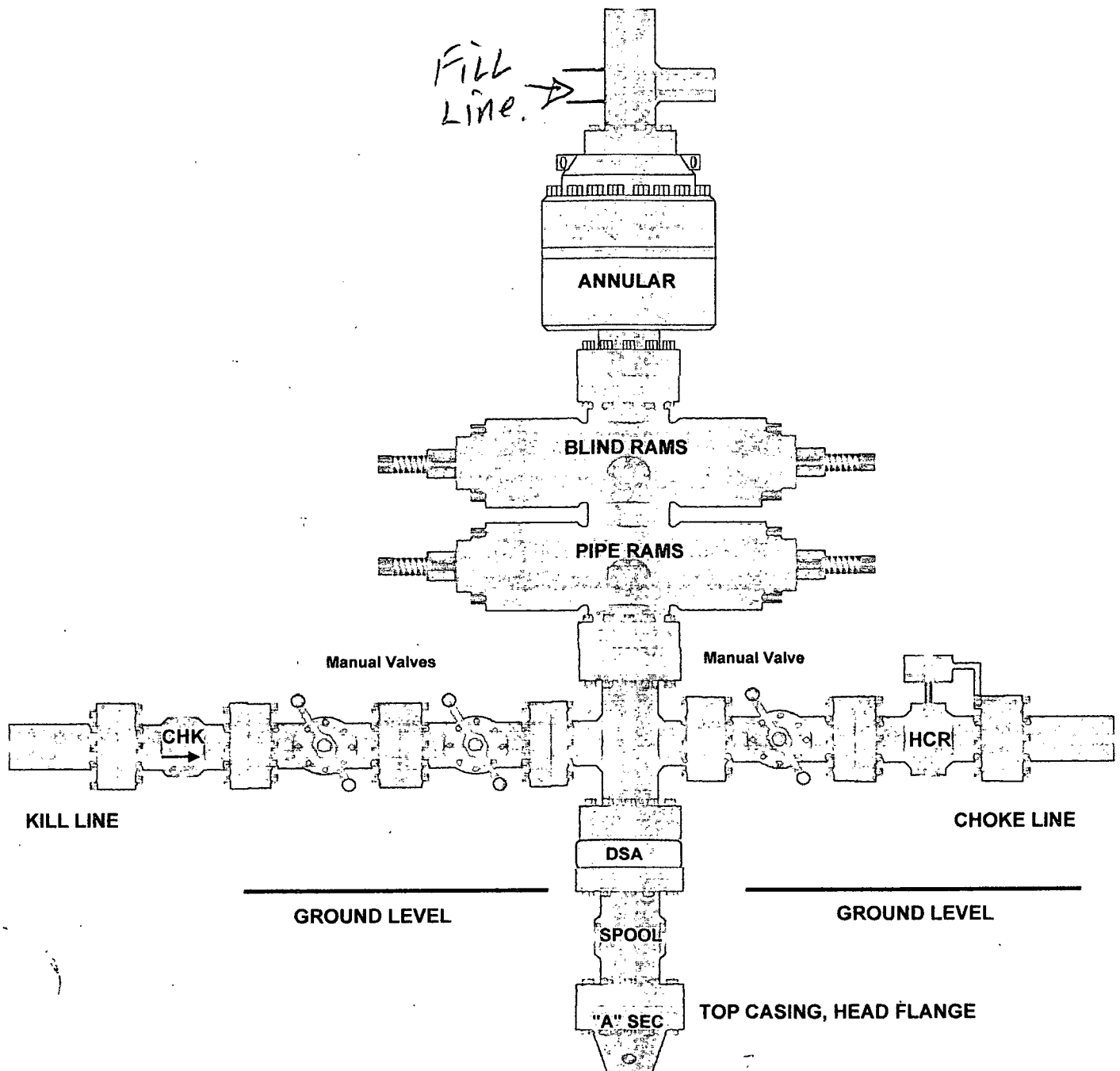
Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 19 @ 3666.0usft (McVay 8)
Site:	Sylvite 22 Fed	MD Reference:	KB = 19 @ 3666.0usft (McVay 8)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
11,200.0	90.00	275.93	7,840.0	4,174.0	372.7	-3,586.6	3,606.0	0.00	601,294.74	750,090.56	
11,300.0	90.00	275.93	7,840.0	4,174.0	383.1	-3,686.1	3,706.0	0.00	601,305.08	749,991.09	
11,400.0	90.00	275.93	7,840.0	4,174.0	393.4	-3,785.6	3,806.0	0.00	601,315.41	749,891.63	
11,500.0	90.00	275.93	7,840.0	4,174.0	403.8	-3,885.0	3,906.0	0.00	601,325.75	749,792.17	
11,600.0	90.00	275.93	7,840.0	4,174.0	414.1	-3,984.5	4,006.0	0.00	601,336.09	749,692.70	
11,700.0	90.00	275.93	7,840.0	4,174.0	424.4	-4,084.0	4,106.0	0.00	601,346.42	749,593.24	
11,800.0	90.00	275.93	7,840.0	4,174.0	434.8	-4,183.4	4,206.0	0.00	601,356.76	749,493.77	
11,900.0	90.00	275.93	7,840.0	4,174.0	445.1	-4,282.9	4,306.0	0.00	601,367.10	749,394.31	
12,000.0	90.00	275.93	7,840.0	4,174.0	455.4	-4,382.4	4,406.0	0.00	601,377.44	749,294.84	
12,100.0	90.00	275.93	7,840.0	4,174.0	465.8	-4,481.8	4,506.0	0.00	601,387.77	749,195.38	
12,200.0	90.00	275.93	7,840.0	4,174.0	476.1	-4,581.3	4,606.0	0.00	601,398.11	749,095.92	
12,243.4	90.00	275.93	7,840.0	4,174.0	480.6	-4,624.5	4,649.4	0.00	601,402.60	749,052.70	
PBHL(Syvite 22 Fed #1H)											

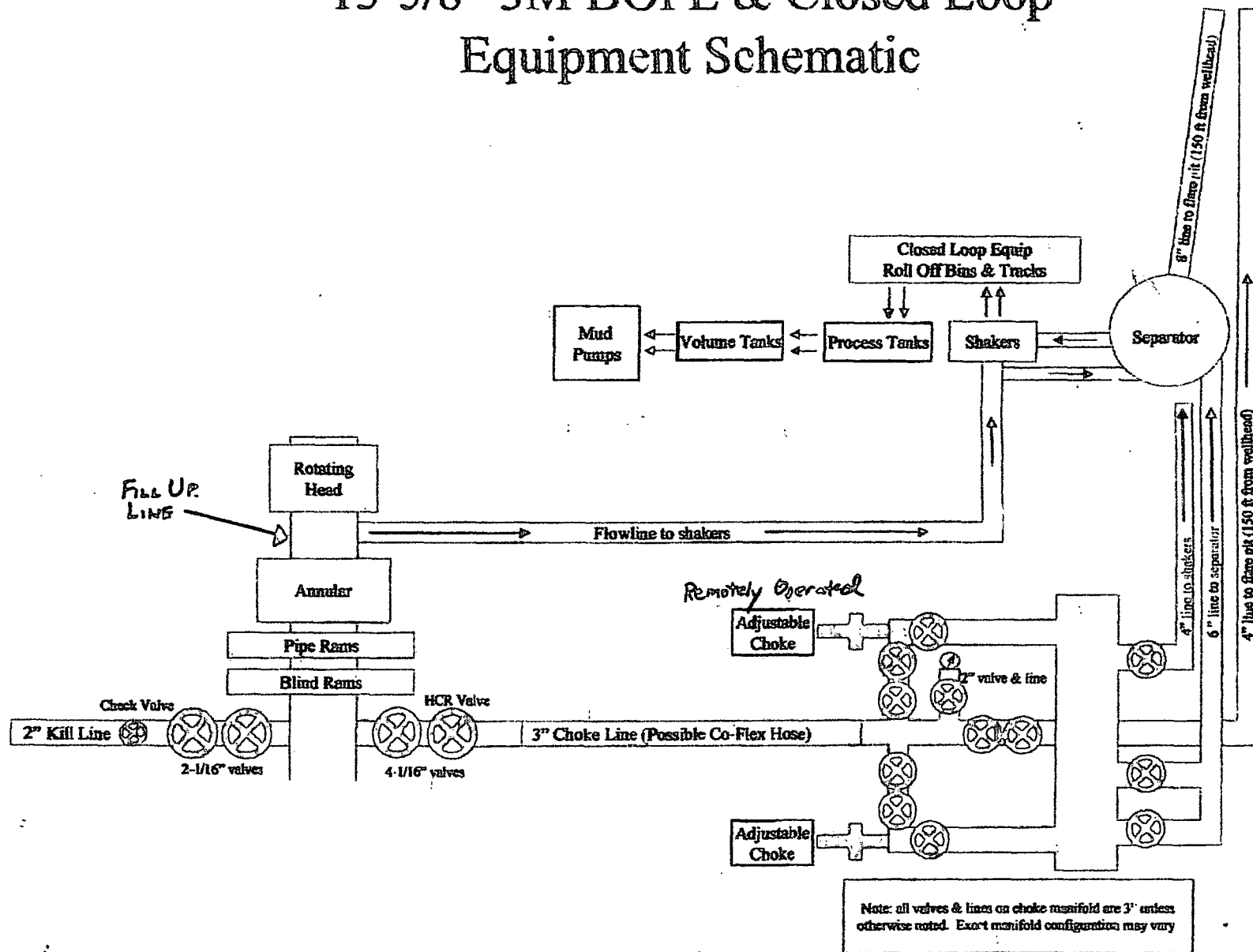
Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,303.0	4,303.0	Queen				
1,807.0	1,807.0	Salado				
3,720.0	3,720.0	Seven Rivers				
5,200.0	5,200.0	Cherry Canyon				
3,302.0	3,302.0	Yates				
6,269.0	6,269.0	Brushy Canyon				
1,423.0	1,423.0	Rustler				

Checked By: _____	Approved By: _____	Date: _____
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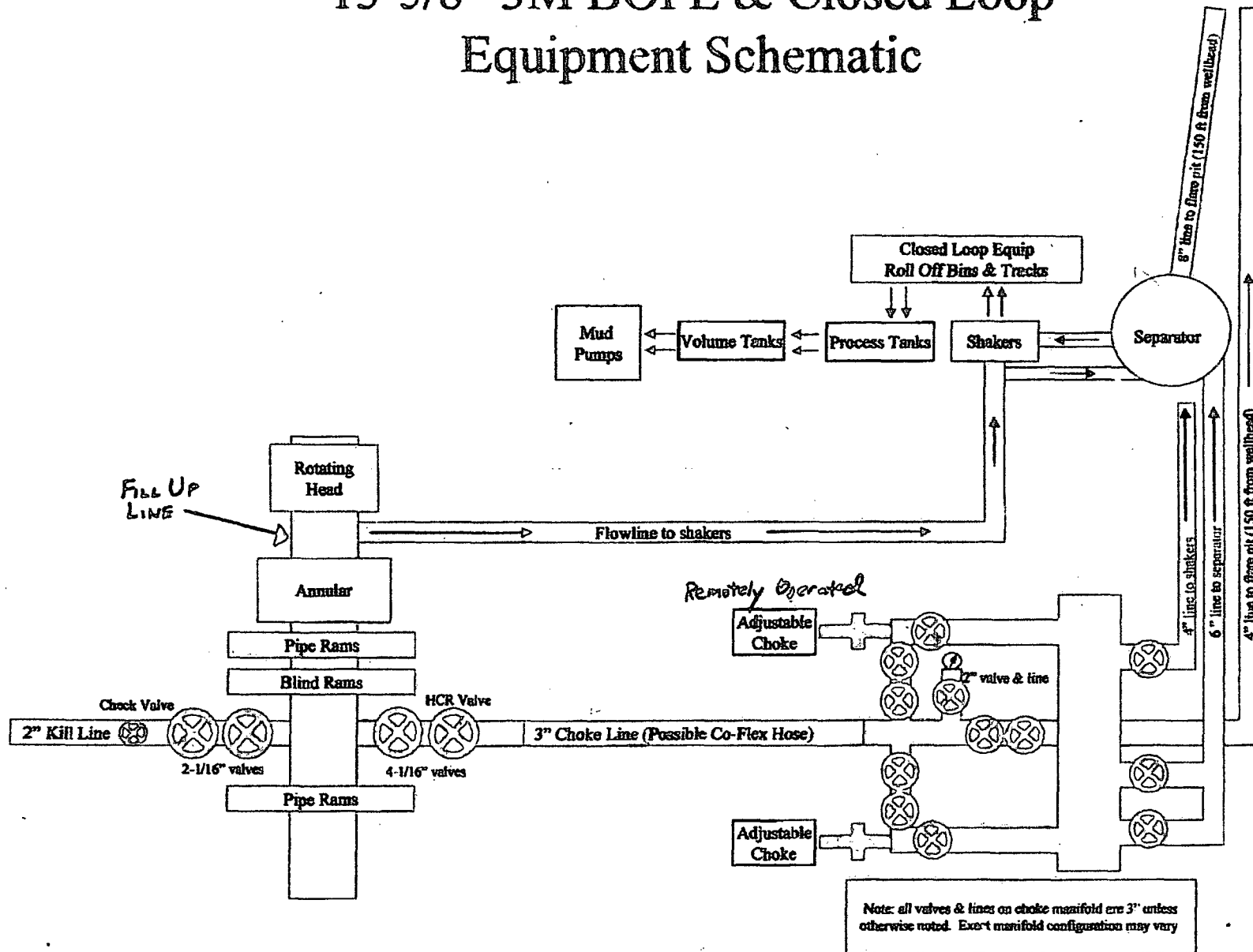
13-5/8" x 3,000 psi BOP Stack



13-5/8" 3M BOPE & Closed Loop Equipment Schematic



13-5/8" 3M BOPE & Closed Loop Equipment Schematic



Attachment to Exhibit #1
NOTES REGARDING BLOWOUT PREVENTERS
Devon Energy Production Company, LP
Sylvite 22 Fed Com 1H

Surface Location: 1050' FNL and 330' FEL, Unit A, Section 22-T19S-R33E, Lea, NM
Bottom Hole Location: 550' FNL and 330' FWL, Unit D, Section 22-T19S-R33E, Lea, NM

1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
2. Wear ring will be properly installed in head.
3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 5000 psi working pressure.
4. All fittings will be flanged.
5. A full bore safety valve tested to a minimum 5000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
6. All choke lines will be anchored to prevent movement.
7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
8. Will maintain a kelly cock attached to the kelly.
9. Hand wheels and wrenches will be properly installed and tested for safe operation.
10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

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Hydrostatic Test Certificate

Certificate Number: 4520	PBC No: 10321	Customer Name & Address
Customer Purchase Order No: RIG 300		HELMERICH & PAYNE INTL DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119
Project:		
Test Centre Address	Accepted by ContiTech Beattie Inspection	Accepted by Client Inspection
ContiTech Beattie Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Josh Sims Date: 10/27/10	

We certify that the goods detailed hereon have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industrial standards within the requirements of the purchase order as issued to ContiTech Beattie Corporation.

These goods were made in the United States of America.

Item	Part No.	Description	Qty	Serial Number	As-Built Length (m)	Work. Press.	Test Press.	Test Time (minutes)
1		3" ID 10K Choke & Kill Hose x 35ft OAL End A: 4.1/16" 10Kpsi API Spec 8A Type 6BX Flange End B: 4.1/16" 10Kpsi API Spec 8A Type 6BX Flange Working Pressure: 10,000psi Test Pressure: 15,000psi Serial#: 49106	1	49106		10 kpsi	15 kpsi	60

