

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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 page 2**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMLC062300
2. Name of Operator DEVON ENERGY PROD CO., L.P. Contact: LINDA GOOD E-Mail: linda.good@devn.com		6. If Indian, Allottee or Tribe Name
3a. Address 333 WEST SHERIDAN AVE. OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405-552-6558	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 30 T25S R32E Mer NMP SWNW 2484FNL 599FWL 2575 660		8. Well Name and No. ARABIAN 30-19 FED COM 1H
		9. API Well No. 30-025-43176
		10. Field and Pool or Exploratory Area WC-025 G-08 S253235G; LWR
		11. County or Parish, State LEA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 recompleat 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Attention Jesse Bassett: Per your conversation with Ray Vaz:

Devon Energy Production Co., L.P. respectfully requests permission to change the SHL from 2575 FNL 660 FWL to 2484 FNL 599 FWL. We are also removing the Pilot Hole that was permitted on the original APD.

Attached is the revised C-102 Plats, Access Rd Plats, Drilling Plan & Directional Plan.

NRS JB 5-1-17 OK
Eng Okay 5/1/17 C. Miller

14. I hereby certify that the foregoing is true and correct. Electronic Submission #373105 verified by the BLM Well Information System For DEVON ENERGY PROD CO., L.P., sent to the Hobbs Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/21/2017 ()	
Name (Printed/Typed) LINDA GOOD	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 04/18/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

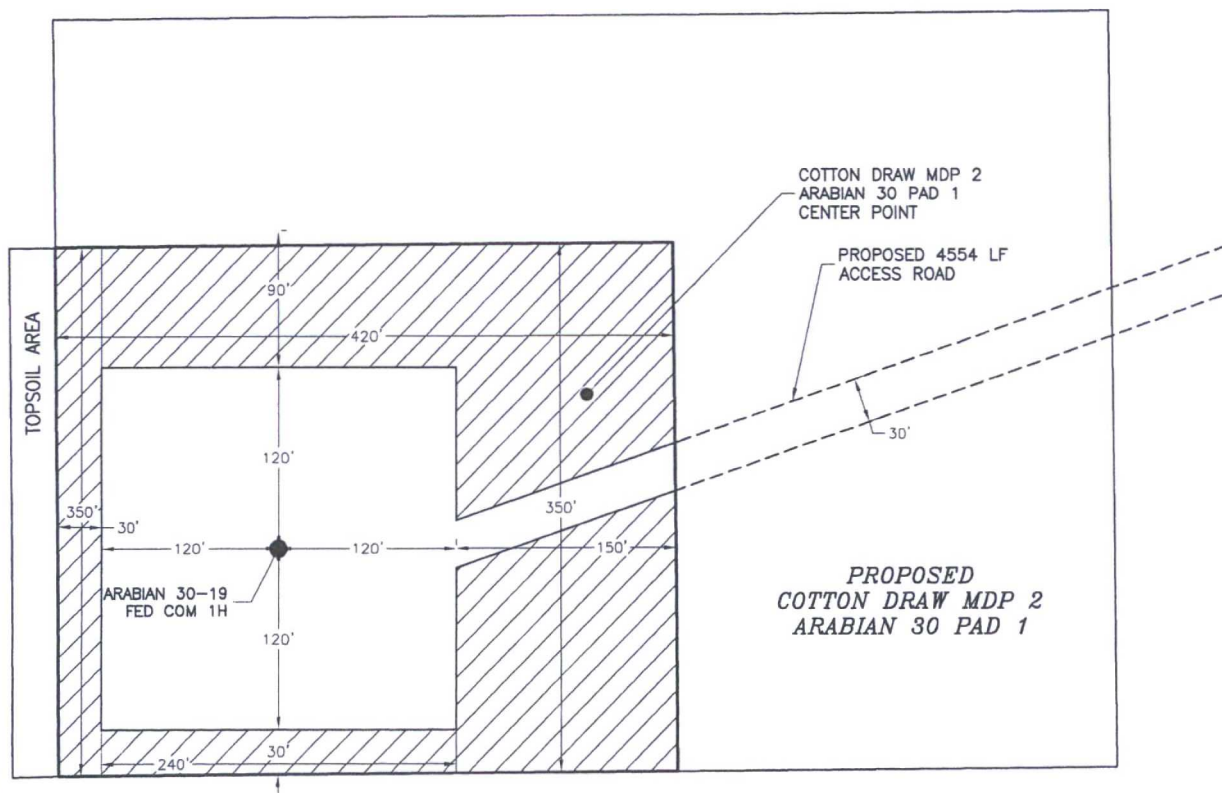
Approved By <i>Cody D. Taylor</i>	Title <i>Car</i> FIELD MANAGER	Date 05/03/17
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office CARLSBAD FIELD 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)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED *****KJB*

*PROPOSED INTERIM SITE BUILD PLAN
FOR ARABIAN 30-19 FED COM 1H
SECTION 30, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO*



 DENOTES INTERIM PAD RECLAMATION AREA
 1.943± ACRES



0 12 60 120 240
 SCALE 1" = 120'

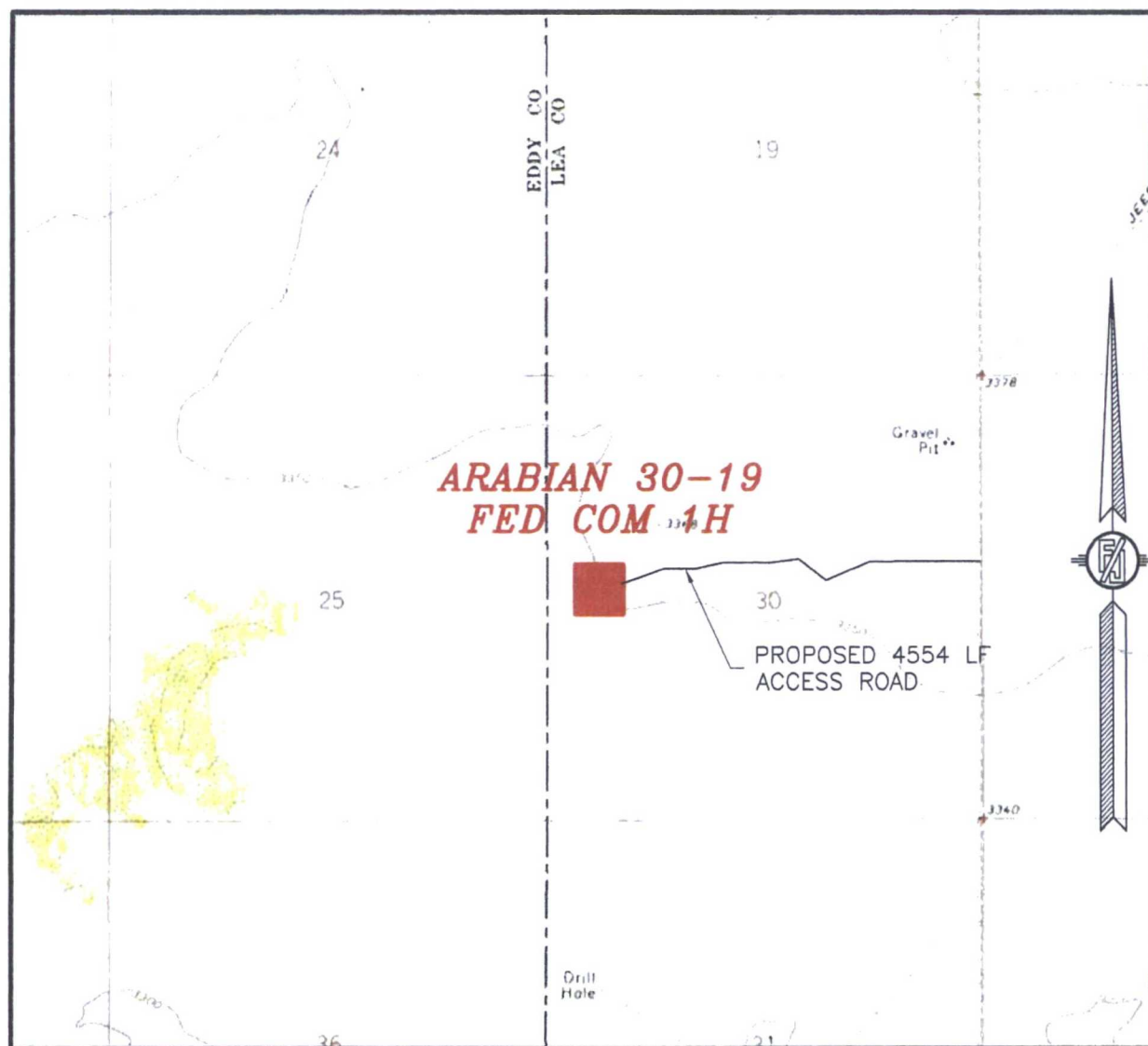
*DEVON ENERGY PRODUCTION COMPANY, L.P.
 ARABIAN 30-19 FED COM 1H
 LOCATED 2484 FT. FROM THE NORTH LINE
 AND 599 FT. FROM THE WEST LINE OF
 SECTION 30, TOWNSHIP 25 SOUTH,
 RANGE 32 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO*

APRIL 5, 2017

SURVEY NO. 3589D

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 30, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
PADUCA BREAKS WEST

NOT TO SCALE

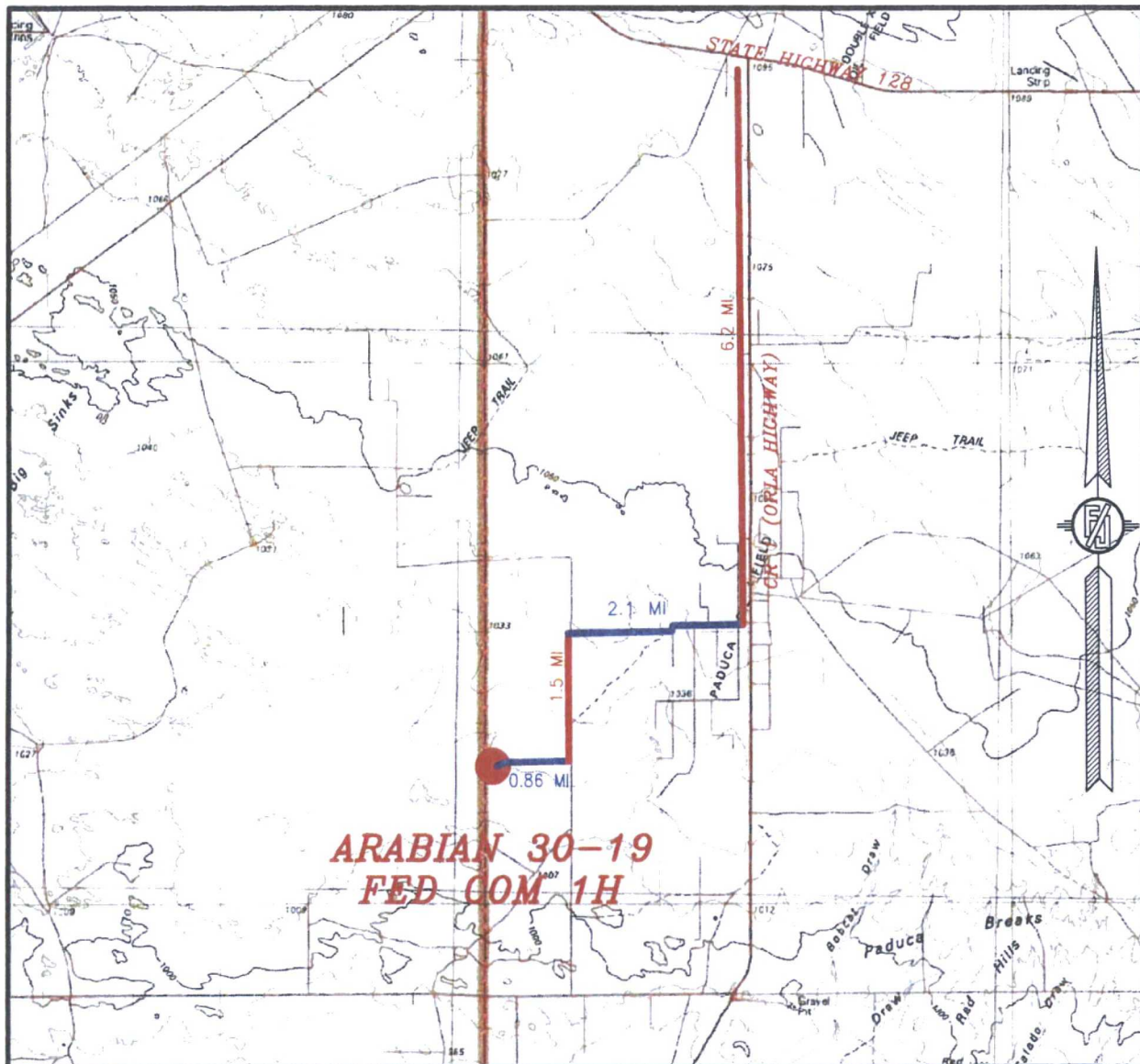
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LEA COUNTY, STATE OF NEW MEXICO

APRIL 5, 2017

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SURVEY NO. 3589D

SECTION 30, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

ARABIAN 30-19 FED COM 1H

LOCATED 2484 FT. FROM THE NORTH LINE

AND 599 FT. FROM THE WEST LINE OF

SECTION 30, TOWNSHIP 25 SOUTH,

RANGE 32 EAST, N.M.P.M.

LEA COUNTY, STATE OF NEW MEXICO

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HIGHWAY 128 & CR 1 (ORLA HWY) GO SOUTH ON CR 1 APPROX. 6.2 MILES TO MONSANTO ROAD, TURN RIGHT (WEST) ON MONSANTO ROAD GO APPROX 2.1 MILES TO A "T" INTERSECTION, TURN LEFT (SOUTH) ON LEASE ROAD GO APPROX 1.5 MILES TO A ROAD LATH ON RIGHT SIDE OF ROAD (WEST), GO WEST FOLLOW ROAD LATHS WEST APPROX. 0.86 MILE TO LOCATION.

APRIL 5, 2017

SURVEY NO. 3589D

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 30, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
NOVEMBER 2015

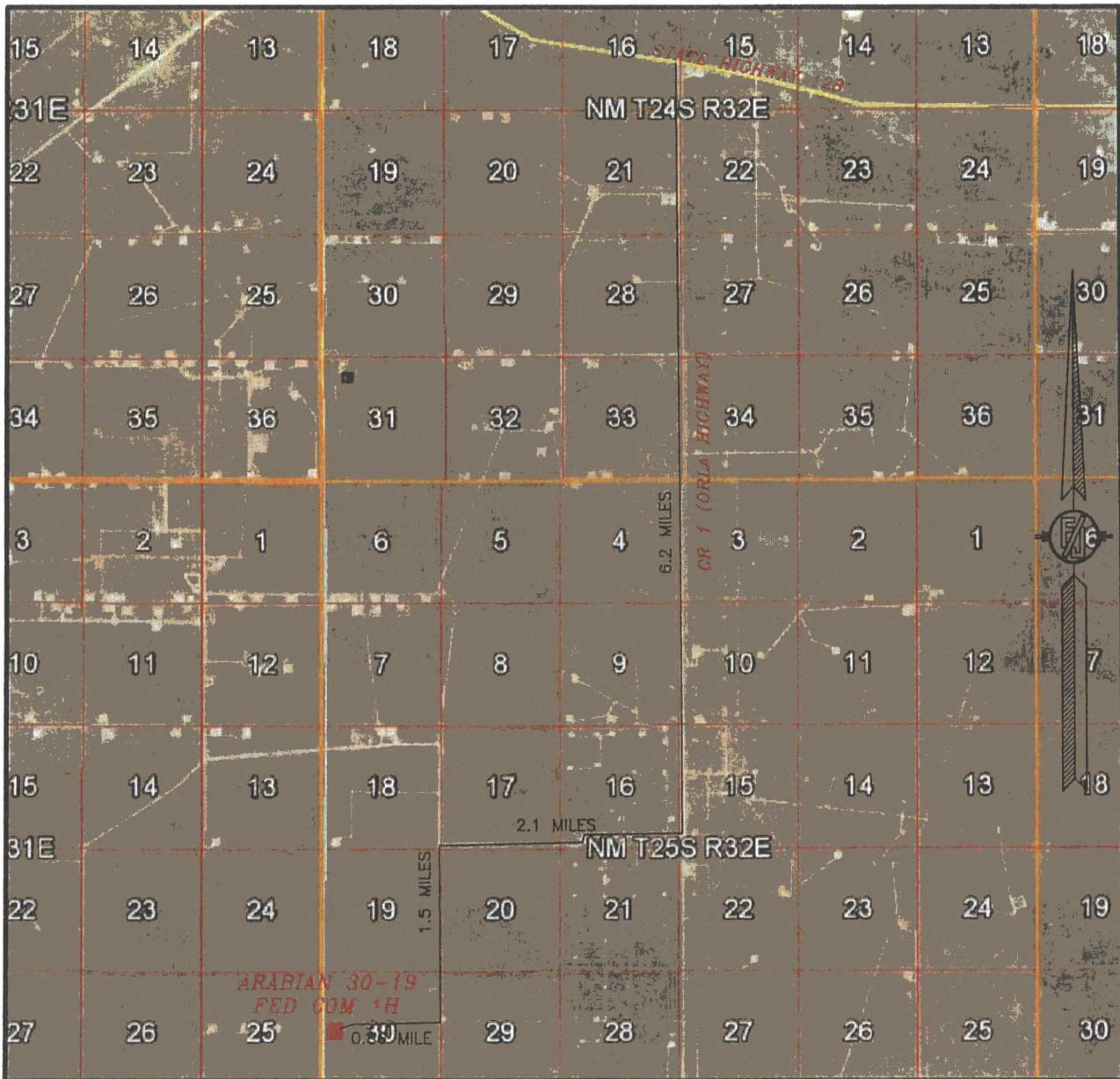
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APRIL 5, 2017

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MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 30, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
ACCESS AERIAL ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
NOVEMBER 2016

DEVON ENERGY PRODUCTION COMPANY, L.P.
ARABIAN 30-19 FED COM 1H
LOCATED 2484 FT. FROM THE NORTH LINE
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SECTION 30, TOWNSHIP 25 SOUTH,
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LEA COUNTY, STATE OF NEW MEXICO

APRIL 5, 2017

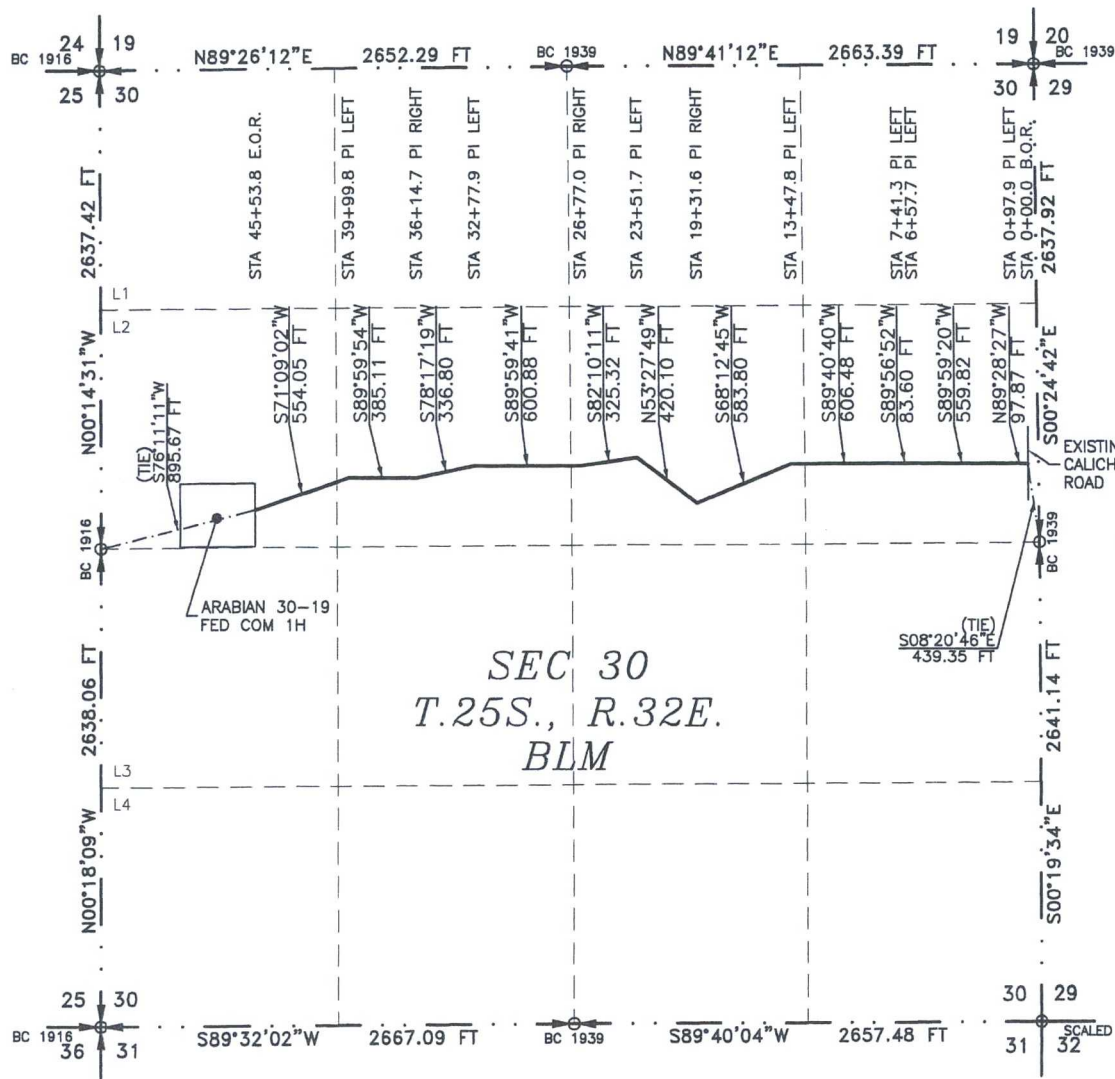
SURVEY NO. 3589D

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD FROM AN EXISTING CALICHE ROAD TO ARABIAN 30-19 FED COM 1H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 30, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
APRIL 4, 2017



SEE NEXT SHEET (2-2) FOR DESCRIPTION

SURVEYOR CERTIFICATE

I, FILMON 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 7 DAY OF APRIL 2017

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-2

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SURVEY NO. 3589D

ACCESS ROAD PLAT

ACCESS ROAD FROM AN EXISTING CALICHE ROAD TO ARABIAN 30-19 FED COM 1H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 30, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
APRIL 4, 2017

DESCRIPTION

A STRIP OF LAND 20 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 30, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, STATE OF NEW MEXICO AND BEING 10 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SE/4 NE/4 OF SAID SECTION 30, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 30, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S08°20'46"E, A DISTANCE OF 439.35 FEET;
THENCE N89°28'27"W A DISTANCE OF 97.87 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°59'20"W A DISTANCE OF 559.82 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°56'52"W A DISTANCE OF 83.60 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°40'40"W A DISTANCE OF 606.48 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S68°12'45"W A DISTANCE OF 583.80 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N53°27'49"W A DISTANCE OF 420.10 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S82°10'11"W A DISTANCE OF 325.32 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°59'41"W A DISTANCE OF 600.88 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S78°17'19"W A DISTANCE OF 336.80 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°59'54"W A DISTANCE OF 385.11 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S71°09'02"W A DISTANCE OF 554.05 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST QUARTER CORNER OF SAID SECTION 30, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S76°11'11"W, A DISTANCE OF 895.67 FEET;

SAID STRIP OF LAND BEING 4553.83 FEET OR 275.99 RODS IN LENGTH, CONTAINING 2.091 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 NE/4	1271.49 L.F.	77.06 RODS	0.584 ACRES
SW/4 NE/4	1457.71 L.F.	88.35 RODS	0.669 ACRES
SE/4 NW/4	1339.39 L.F.	81.18 RODS	0.615 ACRES
SW/4 NW/4	485.24 L.F.	29.41 RODS	0.223 ACRES

SURVEYOR CERTIFICATE

I, FILMON 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.

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MADRON SURVEYING, INC
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SHEET: 2-2

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

FILMON F. JARAMILLO PLS. 12797

SURVEY NO. 3589D

CARLSBAD, NEW MEXICO

Devon Energy, Arabian 30-19 Fed Com 1H

1. Geologic Formations

TVD of target	10,392'	Pilot hole depth	
MD at TD:	17,636'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	1004	Barren	
Salado	1304	Barren	
Base of Salt	4166	Barren	
Delaware	4391	Oil	
Lower Brushy	8160	Oil	
1 st Bone Spring Lime	8360	Oil	
1 st Bone Spring Sand	9400	Oil	
2 nd Bone Spring Lime	9645	Oil	
2 nd Bone Spring Sand	10020	Oil	
2 nd BSSS L	10372	Oil	
2 BSSS L Target Top	10430	Oil	
2 nd L Target Base	10480	Oil	
3 rd Bone Spring Lime	10810	Oil	

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Devon Energy, Arabian 30-19 Fed Com 1H

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	1,030'	13.375"	48	H-40	STC	1.63	3.67	10.94
12.25"	0	4,340'	9.625"	40	J-55	LTC	1.14	1.75	3.00
Option 1									
8.75"	0	17,636'	5.5"	17	P-110	LTC	1.80	2.23	2.68
Option 2									
8.75"	0	9,769'	7"	29	HCP-110	BTC	1.63	2.08	2.73
8.75"	9,769'	17,636'	5.5"	17	P-110	LTC	1.80	2.23	2.68
BLM Minimum Safety Factor							1.125	1.00	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Devon Energy, Arabian 30-19 Fed Com 1H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	H ₂ O gal/sk	Yld ft ³ / sack	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surface	1100	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	870	12.9	9.81	1.85	17	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
5-1/2" Prod	510	11.9	12.89	2.31	n/a	1 st Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
	330	12.5	10.86	1.96	30	2 nd Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake
	2070	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
7 x 5-1/2" Production	340	10.4	16.8	3.17	25	Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	2070	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

Casing String	TOC	% Excess
13-3/8" Surface	0'	100%
9-5/8" Intermediate	0'	75%
5-1/2" Production Casing	4140'	25%
7 x 5-1/2" Production Casing	4140'	25%

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	x	50% of working pressure
			Blind Ram		3M
			Pipe Ram		

Devon Energy, Arabian 30-19 Fed Com 1H

			Double Ram		x	
			Other*			
8-3/4"	13-5/8"	3M	Annular		x	50% testing pressure
			Blind Ram			3M
			Pipe Ram			
			Double Ram		x	
			Other *			
			Annular		x	
			Blind Ram			
			Pipe Ram			
			Double Ram		x	
			Other *			

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. Devon proposes using a multi-bowl wellhead assembly (FMC Uni-head). This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. Wellhead will be installed by FMC's representatives.

Devon Energy, Arabian 30-19 Fed Com 1H

- If the welding is performed by a third party, the FMC's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- FMC representative will install the test plug for the initial BOP test.
- FMC will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the FMC Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the 9-5/8" intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the FMC Uni-head.

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.

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

See attached schematic.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	1,030'	FW Gel	8.6-8.8	28-34	N/C
1,030'	4,340'	Saturated Brine	10.0-10.2	28-34	N/C

Devon Energy, Arabian 30-19 Fed Com 1H

4,340'	17,636'	Cut Brine	8.5-9.3	28-34	N/C
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Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
x	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned	Interval
	Resistivity
	Density
X	CBL
X	Mud log
	PEX

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	2821 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.
--

Devon Energy, Arabian 30-19 Fed Com 1H

N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

Is this a walking operation? No.

Will be pre-setting casing? No.

Attachments

 x Directional Plan

 Other, describe

Devon Energy

Project: Lea County, NM (NAD-83)

Site: Arabian 30-19 Fed Com

Well: 1H

Wellbore: OH

Design: Plan #1

3356.3' GE + 25' KB @ 3381.30usft

Ground Level: 3356.30



Azimuths to Grid North

True North: -0.33°

Magnetic North: 6.54°

Magnetic Field

Strength: 48024.5nT

Dip Angle: 59.83°

Date: 4/17/2017

Model: HDGM

PROJECT DETAILS: Lea County, NM (NAD-83)

Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

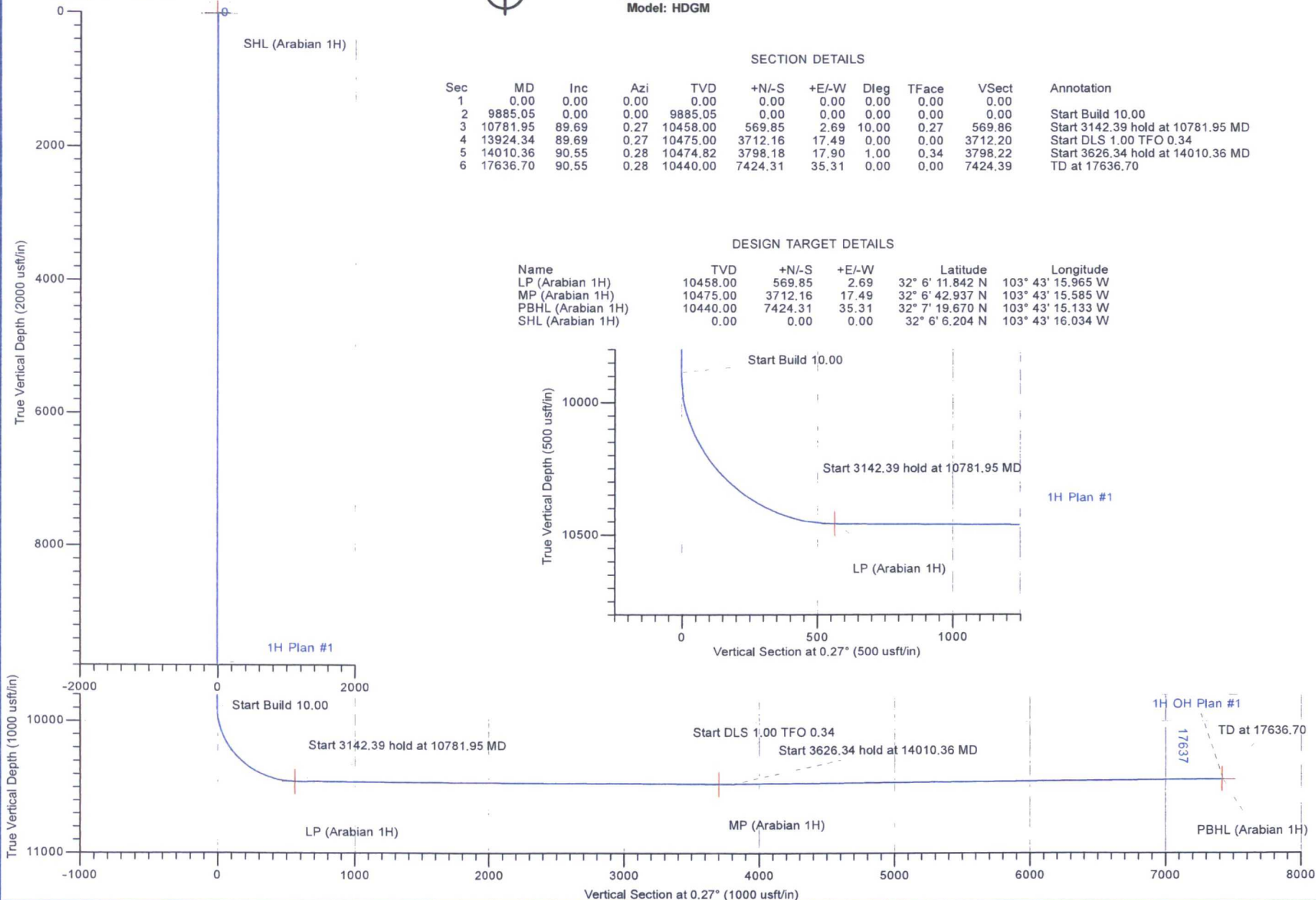


SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	9885.05	0.00	0.00	9885.05	0.00	0.00	0.00	0.00	0.00	Start Build 10.00
3	10781.95	89.69	0.27	10458.00	569.85	2.69	10.00	0.27	569.86	Start 3142.39 hold at 10781.95 MD
4	13924.34	89.69	0.27	10475.00	3712.16	17.49	0.00	0.00	3712.20	Start DLS 1.00 TFO 0.34
5	14010.36	90.55	0.28	10474.82	3798.18	17.90	1.00	0.34	3798.22	Start 3626.34 hold at 14010.36 MD
6	17636.70	90.55	0.28	10440.00	7424.31	35.31	0.00	0.00	7424.39	TD at 17636.70

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
LP (Arabian 1H)	10458.00	569.85	2.69	32° 6' 11.842 N	103° 43' 15.965 W
MP (Arabian 1H)	10475.00	3712.16	17.49	32° 6' 42.937 N	103° 43' 15.585 W
PBHL (Arabian 1H)	10440.00	7424.31	35.31	32° 7' 19.670 N	103° 43' 15.133 W
SHL (Arabian 1H)	0.00	0.00	0.00	32° 6' 6.204 N	103° 43' 16.034 W



LEAM DRILLING SYSTEMS LLC
2010 East Davis, Conroe, Texas 77301
Phone: 936/756-7577, Fax: 936/756-7595

Plan: Plan #1 (1H/OH)
Arabian 30-19 Fed Com
Created By: Dustin Ault
Date: 13:36, April 17 2017
Approved: _____
Date: _____

Devon Energy

Project: Lea County, NM (NAD-83)
Site: Arabian 30-19 Fed Com
Well: 1H
Wellbore: OH
Design: Plan #1



Azimuths to Grid North
True North: -0.33°
Magnetic North: 6.54°
Magnetic Field
Strength: 48024.5nT
Dip Angle: 59.83°
Date: 4/17/2017
Model: HDGM



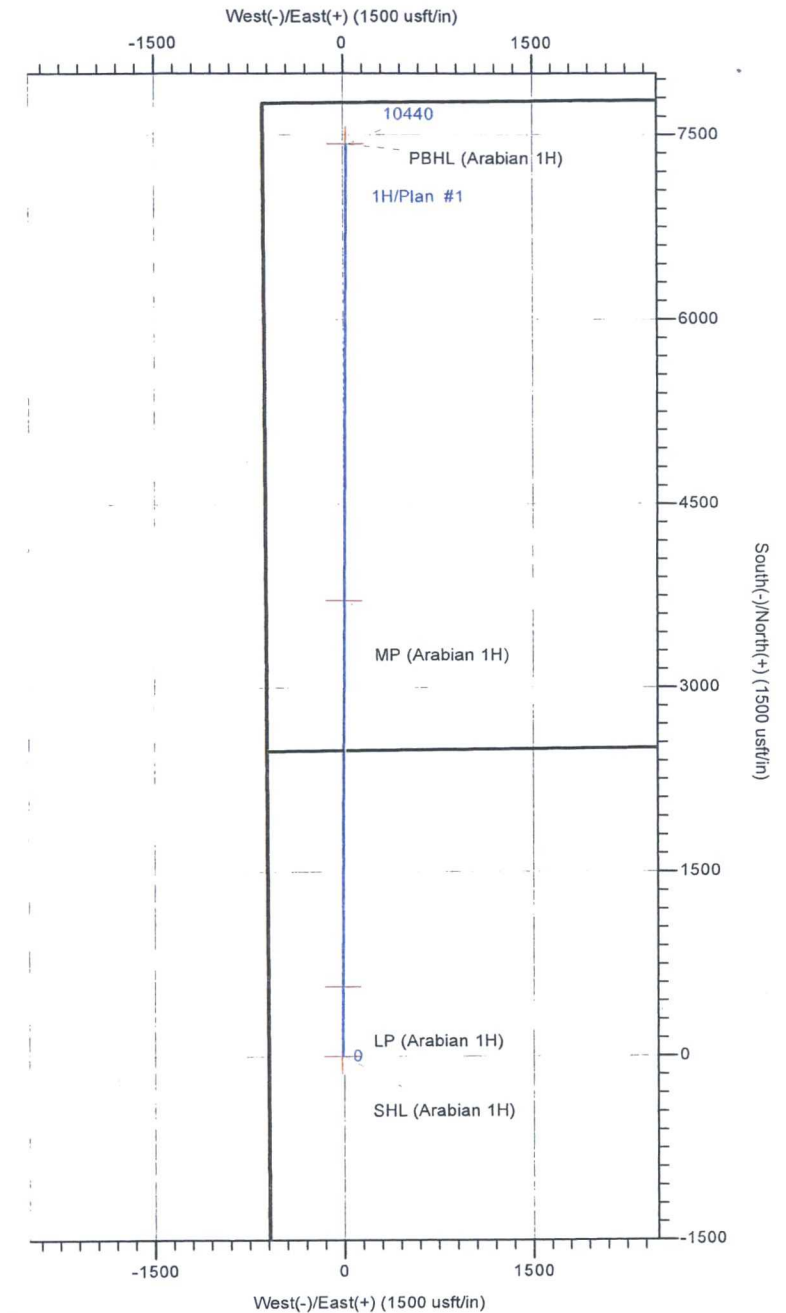
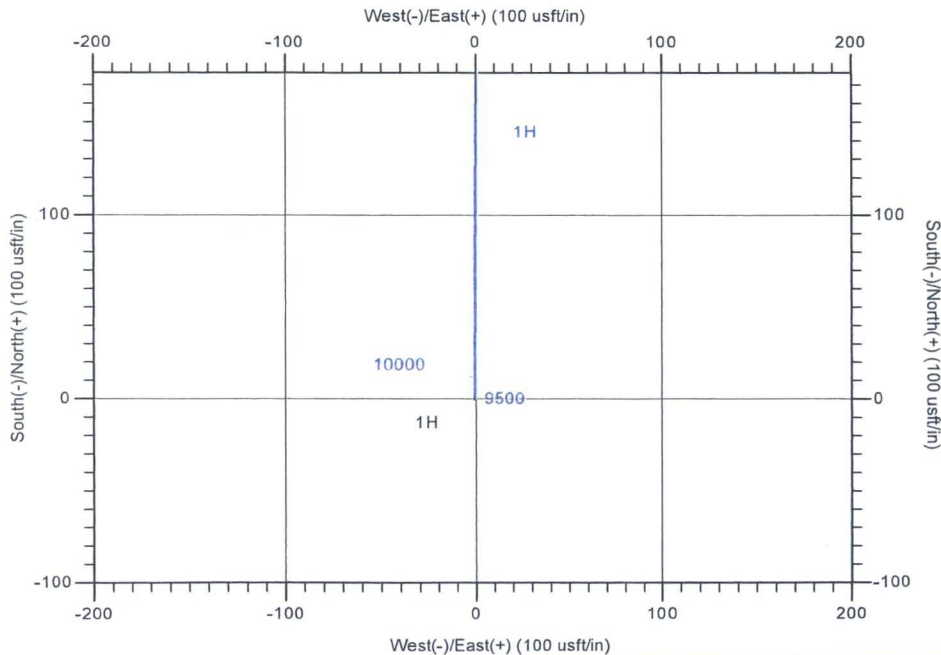
PROJECT DETAILS: Lea County, NM (NAD-83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	9885.05	0.00	0.00	9885.05	0.00	0.00	0.00	0.00	0.00	Start Build 10.00
3	10781.95	89.69	0.27	10458.00	569.85	2.69	10.00	0.27	569.86	Start 3142.39 hold at 10781.95 MD
4	13924.34	89.69	0.27	10475.00	3712.16	17.49	0.00	0.00	3712.20	Start DLS 1.00 TFO 0.34
5	14010.36	90.55	0.28	10474.82	3798.18	17.90	1.00	0.34	3798.22	Start 3626.34 hold at 14010.36 MD
6	17636.70	90.55	0.28	10440.00	7424.31	35.31	0.00	0.00	7424.39	TD at 17636.70

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (Arabian 1H)	10458.00	569.85	2.69	401851.57	730910.61	32° 6' 11.842 N	103° 43' 15.965 W
MP (Arabian 1H)	10475.00	3712.16	17.49	404993.88	730925.41	32° 6' 42.937 N	103° 43' 15.585 W
PBHL (Arabian 1H)	10440.00	7424.31	35.31	408706.03	730943.23	32° 7' 19.670 N	103° 43' 15.133 W
SHL (Arabian 1H)	0.00	0.00	0.00	401281.72	730907.92	32° 6' 6.204 N	103° 43' 16.034 W



LEAM DRILLING SYSTEMS LLC
2010 East Davis, Conroe, Texas 77301
Phone: 936/756-7577, Fax: 936/756-7595

Plan: Plan #1 (1H/OH)
Arabian 30-19 Fed Com
Created By: Dustin Ault
Date: 13:39, April 17 2017
Approved: _____
Date: _____

Devon Energy

Lea County, NM (NAD-83)

Arabian 30-19 Fed Com

1H

OH

Plan: Plan #1

Standard Planning Report

17 April, 2017

LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Multi User Db
Company: Devon Energy
Project: Lea County, NM (NAD-83)
Site: Arabian 30-19 Fed Com
Well: 1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well 1H
TVD Reference: 3356.3' GE + 25' KB @ 3381.30usft
MD Reference: 3356.3' GE + 25' KB @ 3381.30usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Arabian 30-19 Fed Com		
Site Position:		Northing:	401,281.72 usft
From:	Map	Easting:	730,907.92 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 6' 6.204 N
		Longitude:	103° 43' 16.034 W
		Grid Convergence:	0.33 °

Well	1H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 6' 6.204 N
		Longitude:	103° 43' 16.034 W
		Ground Level:	3,356.30 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	HDGM	4/17/2017	(°)
			6.87
			Dip Angle
			(°)
			59.83
			Field Strength
			(nT)
			48,025

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			0.27

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,885.05	0.00	0.00	9,885.05	0.00	0.00	0.00	0.00	0.00	0.00	
10,781.95	89.69	0.27	10,458.00	569.85	2.69	10.00	10.00	0.00	0.27	
13,924.34	89.69	0.27	10,475.00	3,712.16	17.49	0.00	0.00	0.00	0.00	
14,010.36	90.55	0.28	10,474.82	3,798.18	17.90	1.00	1.00	0.01	0.34	
17,636.70	90.55	0.28	10,440.00	7,424.31	35.31	0.00	0.00	0.00	0.00	PBHL (Arabian 1H)

LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Multi User Db
 Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Site: Arabian 30-19 Fed Com
 Well: 1H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well 1H
 TVD Reference: 3356.3' GE + 25' KB @ 3381.30usft
 MD Reference: 3356.3' GE + 25' KB @ 3381.30usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (Arabian 1H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Multi User Db
 Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Site: Arabian 30-19 Fed Com
 Well: 1H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well 1H
 TVD Reference: 3356.3' GE + 25' KB @ 3381.30usft
 MD Reference: 3356.3' GE + 25' KB @ 3381.30usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,885.05	0.00	0.00	9,885.05	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 10.00									
9,900.00	1.50	0.27	9,900.00	0.20	0.00	0.20	10.00	10.00	0.00
9,950.00	6.50	0.27	9,949.86	3.68	0.02	3.68	10.00	10.00	0.00
10,000.00	11.50	0.27	9,999.23	11.49	0.05	11.49	10.00	10.00	0.00
10,050.00	16.50	0.27	10,047.73	23.58	0.11	23.58	10.00	10.00	0.00
10,100.00	21.50	0.27	10,094.99	39.85	0.19	39.85	10.00	10.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Multi User Db
 Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Site: Arabian 30-19 Fed Com
 Well: 1H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well 1H
 TVD Reference: 3356.3' GE + 25' KB @ 3381.30usft
 MD Reference: 3356.3' GE + 25' KB @ 3381.30usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,150.00	26.50	0.27	10,140.66	60.18	0.28	60.18	10.00	10.00	0.00
10,200.00	31.50	0.27	10,184.38	84.40	0.40	84.40	10.00	10.00	0.00
10,250.00	36.50	0.27	10,225.82	112.35	0.53	112.35	10.00	10.00	0.00
10,300.00	41.50	0.27	10,264.67	143.80	0.68	143.80	10.00	10.00	0.00
10,350.00	46.50	0.27	10,300.62	178.52	0.84	178.52	10.00	10.00	0.00
10,400.00	51.50	0.27	10,333.42	216.24	1.02	216.24	10.00	10.00	0.00
10,450.00	56.50	0.27	10,362.80	256.68	1.21	256.68	10.00	10.00	0.00
10,500.00	61.50	0.27	10,388.55	299.52	1.41	299.52	10.00	10.00	0.00
10,550.00	66.50	0.27	10,410.47	344.44	1.62	344.45	10.00	10.00	0.00
10,600.00	71.50	0.27	10,428.38	391.10	1.84	391.11	10.00	10.00	0.00
10,650.00	76.50	0.27	10,442.17	439.15	2.07	439.15	10.00	10.00	0.00
10,700.00	81.50	0.27	10,451.71	488.21	2.30	488.22	10.00	10.00	0.00
10,750.00	86.50	0.27	10,456.94	537.92	2.53	537.93	10.00	10.00	0.00
10,781.95	89.69	0.27	10,458.00	569.85	2.69	569.86	10.00	10.00	0.00
Start 3142.39 hold at 10781.95 MD - LP (Arabian 1H)									
10,800.00	89.69	0.27	10,458.10	587.90	2.77	587.91	0.00	0.00	0.00
10,900.00	89.69	0.27	10,458.64	687.90	3.24	687.91	0.00	0.00	0.00
11,000.00	89.69	0.27	10,459.18	787.90	3.71	787.90	0.00	0.00	0.00
11,100.00	89.69	0.27	10,459.72	887.89	4.18	887.90	0.00	0.00	0.00
11,200.00	89.69	0.27	10,460.26	987.89	4.66	987.90	0.00	0.00	0.00
11,300.00	89.69	0.27	10,460.80	1,087.89	5.13	1,087.90	0.00	0.00	0.00
11,400.00	89.69	0.27	10,461.34	1,187.89	5.60	1,187.90	0.00	0.00	0.00
11,500.00	89.69	0.27	10,461.88	1,287.88	6.07	1,287.90	0.00	0.00	0.00
11,600.00	89.69	0.27	10,462.43	1,387.88	6.54	1,387.90	0.00	0.00	0.00
11,700.00	89.69	0.27	10,462.97	1,487.88	7.01	1,487.89	0.00	0.00	0.00
11,800.00	89.69	0.27	10,463.51	1,587.88	7.48	1,587.89	0.00	0.00	0.00
11,900.00	89.69	0.27	10,464.05	1,687.87	7.95	1,687.89	0.00	0.00	0.00
12,000.00	89.69	0.27	10,464.59	1,787.87	8.43	1,787.89	0.00	0.00	0.00
12,100.00	89.69	0.27	10,465.13	1,887.87	8.90	1,887.89	0.00	0.00	0.00
12,200.00	89.69	0.27	10,465.67	1,987.87	9.37	1,987.89	0.00	0.00	0.00
12,300.00	89.69	0.27	10,466.21	2,087.86	9.84	2,087.89	0.00	0.00	0.00
12,400.00	89.69	0.27	10,466.75	2,187.86	10.31	2,187.88	0.00	0.00	0.00
12,500.00	89.69	0.27	10,467.30	2,287.86	10.78	2,287.88	0.00	0.00	0.00
12,600.00	89.69	0.27	10,467.84	2,387.85	11.25	2,387.88	0.00	0.00	0.00
12,700.00	89.69	0.27	10,468.38	2,487.85	11.72	2,487.88	0.00	0.00	0.00
12,800.00	89.69	0.27	10,468.92	2,587.85	12.20	2,587.88	0.00	0.00	0.00
12,900.00	89.69	0.27	10,469.46	2,687.85	12.67	2,687.88	0.00	0.00	0.00
13,000.00	89.69	0.27	10,470.00	2,787.84	13.14	2,787.88	0.00	0.00	0.00
13,100.00	89.69	0.27	10,470.54	2,887.84	13.61	2,887.87	0.00	0.00	0.00
13,200.00	89.69	0.27	10,471.08	2,987.84	14.08	2,987.87	0.00	0.00	0.00
13,300.00	89.69	0.27	10,471.62	3,087.84	14.55	3,087.87	0.00	0.00	0.00
13,400.00	89.69	0.27	10,472.16	3,187.83	15.02	3,187.87	0.00	0.00	0.00
13,500.00	89.69	0.27	10,472.71	3,287.83	15.49	3,287.87	0.00	0.00	0.00
13,600.00	89.69	0.27	10,473.25	3,387.83	15.96	3,387.87	0.00	0.00	0.00
13,700.00	89.69	0.27	10,473.79	3,487.83	16.44	3,487.87	0.00	0.00	0.00
13,800.00	89.69	0.27	10,474.33	3,587.82	16.91	3,587.86	0.00	0.00	0.00
13,900.00	89.69	0.27	10,474.87	3,687.82	17.38	3,687.86	0.00	0.00	0.00
13,924.34	89.69	0.27	10,475.00	3,712.16	17.49	3,712.20	0.00	0.00	0.00
Start DLS 1.00 TFO 0.34 - MP (Arabian 1H)									
14,000.00	90.45	0.27	10,474.91	3,787.82	17.85	3,787.86	1.00	1.00	0.01
14,010.36	90.55	0.28	10,474.82	3,798.18	17.90	3,798.22	1.00	1.00	0.01
Start 3626.34 hold at 14010.36 MD									
14,100.00	90.55	0.28	10,473.96	3,887.81	18.33	3,887.86	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Multi User Db
 Company: Devon Energy
 Project: Lea County, NM (NAD-83)
 Site: Arabian 30-19 Fed Com
 Well: 1H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well 1H
 TVD Reference: 3356.3' GE + 25' KB @ 3381.30usft
 MD Reference: 3356.3' GE + 25' KB @ 3381.30usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,200.00	90.55	0.28	10,473.00	3,987.81	18.81	3,987.85	0.00	0.00	0.00
14,300.00	90.55	0.28	10,472.04	4,087.80	19.29	4,087.85	0.00	0.00	0.00
14,400.00	90.55	0.28	10,471.08	4,187.80	19.77	4,187.84	0.00	0.00	0.00
14,500.00	90.55	0.28	10,470.12	4,287.79	20.25	4,287.84	0.00	0.00	0.00
14,600.00	90.55	0.28	10,469.16	4,387.78	20.73	4,387.83	0.00	0.00	0.00
14,700.00	90.55	0.28	10,468.20	4,487.78	21.21	4,487.83	0.00	0.00	0.00
14,800.00	90.55	0.28	10,467.24	4,587.77	21.69	4,587.82	0.00	0.00	0.00
14,900.00	90.55	0.28	10,466.28	4,687.77	22.17	4,687.82	0.00	0.00	0.00
15,000.00	90.55	0.28	10,465.32	4,787.76	22.65	4,787.82	0.00	0.00	0.00
15,100.00	90.55	0.28	10,464.36	4,887.76	23.13	4,887.81	0.00	0.00	0.00
15,200.00	90.55	0.28	10,463.40	4,987.75	23.61	4,987.81	0.00	0.00	0.00
15,300.00	90.55	0.28	10,462.44	5,087.74	24.09	5,087.80	0.00	0.00	0.00
15,400.00	90.55	0.28	10,461.48	5,187.74	24.57	5,187.80	0.00	0.00	0.00
15,500.00	90.55	0.28	10,460.52	5,287.73	25.05	5,287.79	0.00	0.00	0.00
15,600.00	90.55	0.28	10,459.56	5,387.73	25.53	5,387.79	0.00	0.00	0.00
15,700.00	90.55	0.28	10,458.60	5,487.72	26.01	5,487.78	0.00	0.00	0.00
15,800.00	90.55	0.28	10,457.64	5,587.72	26.49	5,587.78	0.00	0.00	0.00
15,900.00	90.55	0.28	10,456.68	5,687.71	26.97	5,687.77	0.00	0.00	0.00
16,000.00	90.55	0.28	10,455.72	5,787.70	27.45	5,787.77	0.00	0.00	0.00
16,100.00	90.55	0.28	10,454.76	5,887.70	27.93	5,887.76	0.00	0.00	0.00
16,200.00	90.55	0.28	10,453.80	5,987.69	28.41	5,987.76	0.00	0.00	0.00
16,300.00	90.55	0.28	10,452.84	6,087.69	28.89	6,087.76	0.00	0.00	0.00
16,400.00	90.55	0.28	10,451.88	6,187.68	29.37	6,187.75	0.00	0.00	0.00
16,500.00	90.55	0.28	10,450.92	6,287.68	29.85	6,287.75	0.00	0.00	0.00
16,600.00	90.55	0.28	10,449.95	6,387.67	30.33	6,387.74	0.00	0.00	0.00
16,700.00	90.55	0.28	10,448.99	6,487.66	30.81	6,487.74	0.00	0.00	0.00
16,800.00	90.55	0.28	10,448.03	6,587.66	31.29	6,587.73	0.00	0.00	0.00
16,900.00	90.55	0.28	10,447.07	6,687.65	31.77	6,687.73	0.00	0.00	0.00
17,000.00	90.55	0.28	10,446.11	6,787.65	32.25	6,787.72	0.00	0.00	0.00
17,100.00	90.55	0.28	10,445.15	6,887.64	32.73	6,887.72	0.00	0.00	0.00
17,200.00	90.55	0.28	10,444.19	6,987.63	33.21	6,987.71	0.00	0.00	0.00
17,300.00	90.55	0.28	10,443.23	7,087.63	33.69	7,087.71	0.00	0.00	0.00
17,400.00	90.55	0.28	10,442.27	7,187.62	34.17	7,187.70	0.00	0.00	0.00
17,500.00	90.55	0.28	10,441.31	7,287.62	34.65	7,287.70	0.00	0.00	0.00
17,600.00	90.55	0.28	10,440.35	7,387.61	35.13	7,387.70	0.00	0.00	0.00
17,636.70	90.55	0.28	10,440.00	7,424.31	35.31	7,424.39	0.00	0.00	0.00

TD at 17636.70 - PBHL (Arabian 1H)

LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Multi User Db
Company: Devon Energy
Project: Lea County, NM (NAD-83)
Site: Arabian 30-19 Fed Com
Well: 1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well 1H
TVD Reference: 3356.3' GE + 25' KB @ 3381.30usft
MD Reference: 3356.3' GE + 25' KB @ 3381.30usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (Arabian 1H) - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	401,281.72	730,907.92	32° 6' 6.204 N	103° 43' 16.034 W
PBHL (Arabian 1H) - plan hits target center - Point	0.00	0.00	10,440.00	7,424.31	35.31	408,706.03	730,943.23	32° 7' 19.670 N	103° 43' 15.133 W
LP (Arabian 1H) - plan hits target center - Point	0.00	0.00	10,458.00	569.85	2.69	401,851.57	730,910.61	32° 6' 11.842 N	103° 43' 15.965 W
MP (Arabian 1H) - plan hits target center - Point	0.00	0.00	10,475.00	3,712.16	17.49	404,993.88	730,925.41	32° 6' 42.937 N	103° 43' 15.585 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,885.05	9,885.05	0.00	0.00	Start Build 10.00
10,781.95	10,458.00	569.85	2.69	Start 3142.39 hold at 10781.95 MD
13,924.34	10,475.00	3,712.16	17.49	Start DLS 1.00 TFO 0.34
14,010.36	10,474.82	3,798.18	17.90	Start 3626.34 hold at 14010.36 MD
17,636.70	10,440.00	7,424.31	35.31	TD at 17636.70

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: (505) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, 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, NM 87505

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-43176	² Pool Code 97903	³ Pool Name WC-025 G-08 S253235G; LWR Bone Spring
⁴ Property Code 316114	⁵ Property Name ARABIAN 30-19 FED COM	⁶ Well Number 1H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3356.3

¹⁰ Surface Location

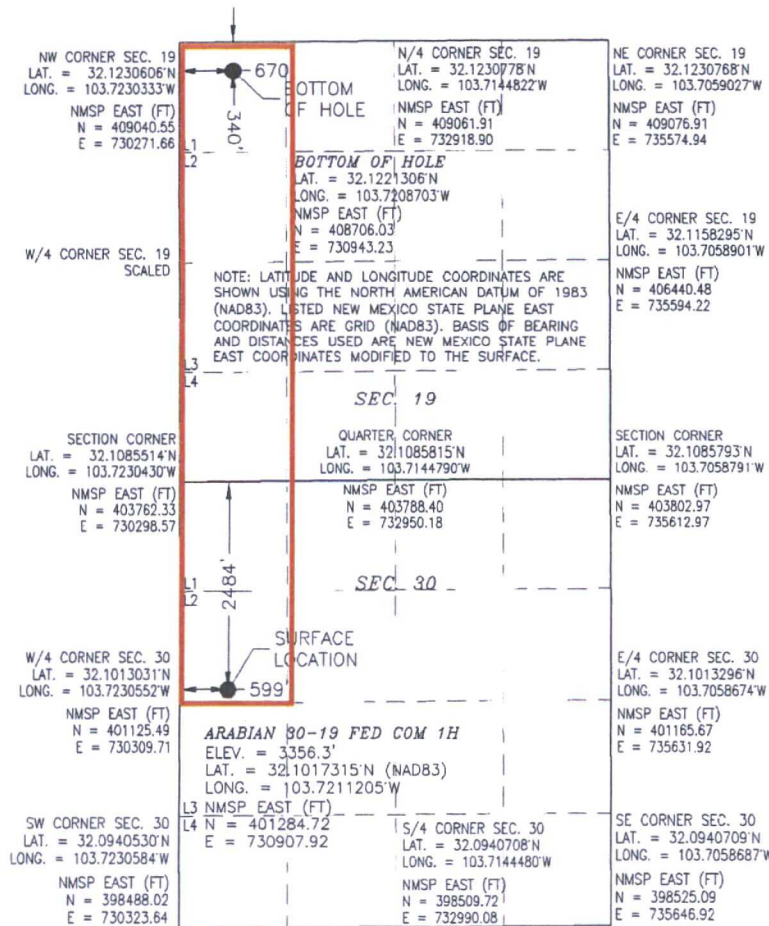
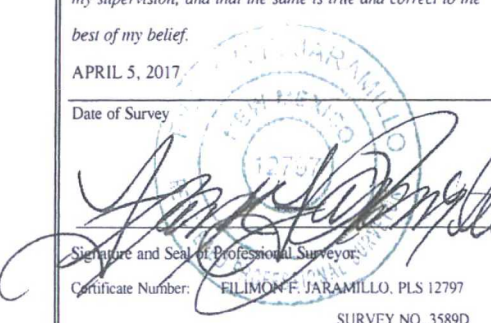
UL or lot no. 2	Section 30	Township 25 S	Range 32 E	Lot Idn 2484	from the NORTH	North/South line NORTH	Feet from the 599	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. 1	Section 19	Township 25 S	Range 32 E	Lot Idn 340	Feet from the 340	North/South line NORTH	Feet from the 670	East/West line WEST	County LEA
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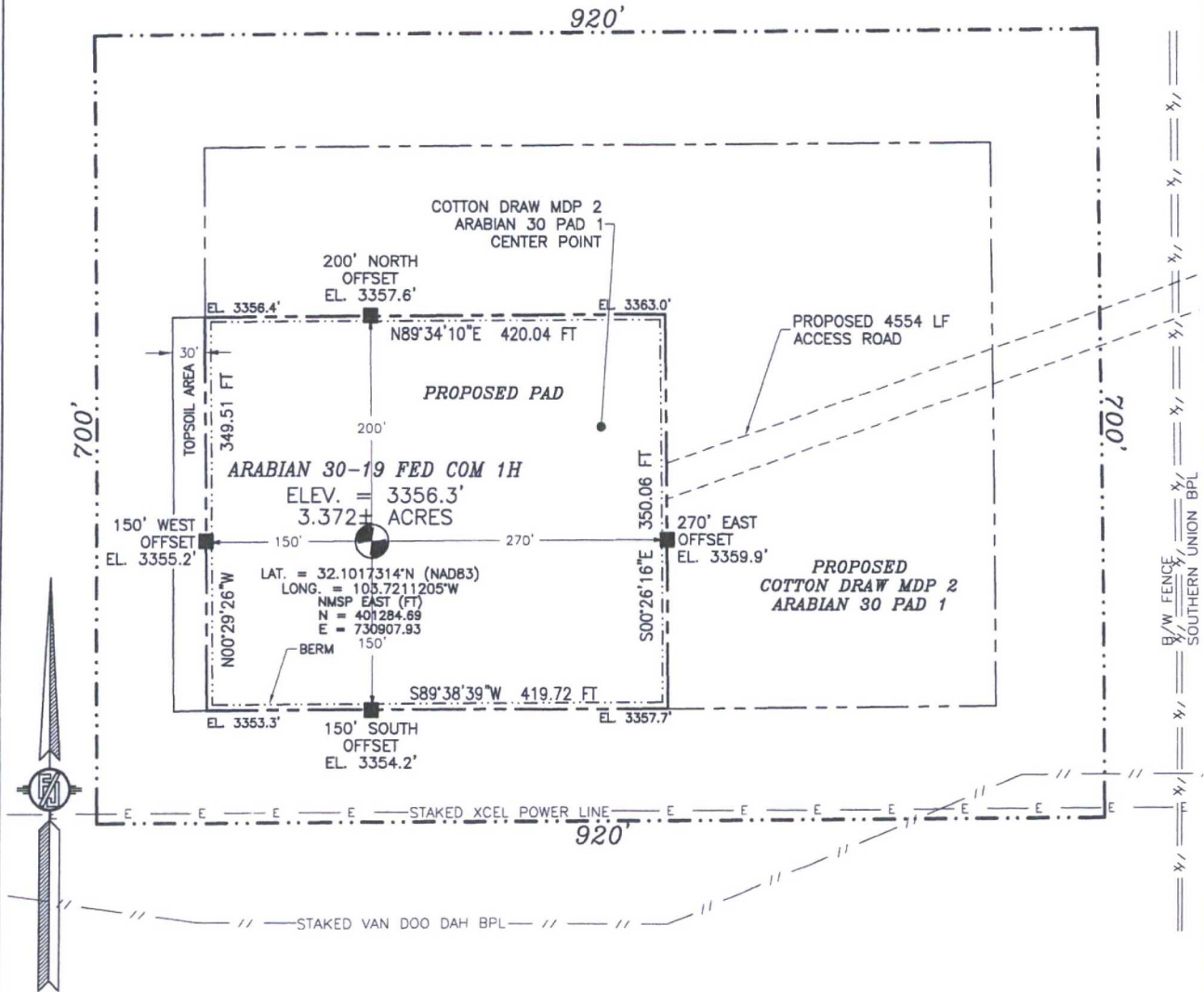
¹² Dedicated Acres 238.78	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.	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 4/18/2017 Signature _____ Date Linda Good Printed Name linda.good@dmv.com E-mail Address ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. APRIL 5, 2017 Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number: FILMON F. JARAMILLO, PLS 12797 SURVEY NO. 3589D
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SECTION 30, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. VERTICAL DATUM NAVD88.



015 75 150 300

SCALE 1" = 150'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HIGHWAY 128 & CR 1 (ORLA HWY) GO SOUTH ON CR 1 APPROX. 6.2 MILES TO MONSANTO ROAD, TURN RIGHT (WEST) ON MONSANTO ROAD GO APPROX 2.1 MILES TO A "T" INTERSECTION, TURN LEFT (SOUTH) ON LEASE ROAD GO APPROX 1.5 MILES TO A ROAD LATH ON RIGHT SIDE OF ROAD (WEST), GO WEST FOLLOW ROAD LATHS WEST APPROX. 0.86 MILE TO LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.
ARABIAN 30-19 FED COM 1H
LOCATED 2484 FT. FROM THE NORTH LINE
AND 599 FT. FROM THE WEST LINE OF
SECTION 30, TOWNSHIP 25 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 5, 2017

SURVEY NO. 3589D

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341

CARLSBAD, NEW MEXICO