Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ED STATES FORM APPROVED
OF THE INTERIOR OMB NO. 1004-0137
AND MANAGEMENT Expires: January 31, 2018

5. Lease Serial No.

	NOTICES AND REPO				NMLC062300			
Do not use the abandoned we	is form for proposals to II. Use form 3160-3 (AP	enter al roposal	n Is.		6. If Indian, Allottee	or Tribe N	ame	
SUBMIT IN	page 2			7. If Unit or CA/Agre	ement, Na	me and/or No.		
Type of Well Gas Well □ Otl	ner					8. Well Name and No. BIG SINKS DRAV		ED COM 731H
Name of Operator DEVON ENERGY PRODUCT	Contact: ION COM-Mail: jennifer:ha	JENNIFER H rms@dvn.com	ARMS		*	9. API Well No. 30-015-45065-0	00-X1	•
3a. Address 333 WEST SHERIDAN AVEN OKLAHOMA, OK 73102	IUE	3b. Phone No. Ph: 405-55		area code)		10. Field and Pool or PURPLE SAGE		
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description	j.				11. County or Parish,	State	
Sec 25 T25S R31E SWNW 24 32.101704 N Lat, 103.737015						EDDY COUNT	Y, NM	
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICAT	ΓΕ ΝΑΤ	URE OF	NOTICE,	REPORT, OR OTH	IER DA	TA
TYPE OF SUBMISSION]	TYPE OF	ACTION			
Notice of Intent	☐ Acidize	Deep	oen		☐ Product	ion (Start/Resume)	□ Wa	ter Shut-Off
- ·	☐ Alter Casing	☐ Hydi	raulic Fra	acturing	☐ Reclam	ation	□ We	ll Integrity
☐ Subsequent Report	□ Casing Repair	☐ New	Construc	ction	☐ Recomp	olete	⊠ Oth	
☐ Final Abandonment Notice	□ Change Plans	Plug	and Aba	ndon	☐ Tempor	arily Abandon	Chang PD	ge to Original A
	☐ Convert to Injection	Plug	Back		☐ Water I	Disposal		
Attach the Bond under which the woi following completion of the involved testing has been completed. Final Abdetermined that the site is ready for fi NAME CHANGE/BHL/DEPTH Devon Energy Production Co.	operations. If the operation res andonment Notices must be file nal inspection. CHANGE	sults in a multiple ed only after all n	e completi equiremen	on or reconnts, includir	npletion in a r ng reclamation	new interval, a Form 316 n, have been completed a	0-4 must h	pe filed once erator has
depth on the subject well. Plea	ise see attached revised	C102, Drill pla	n, direc	tional pla	n.	anq	JAN 1	0 2020
-COTTON DRAW MDP 2 Permitted Well name: BIG SINKS DRAW 25-24 FED COM 7.11H Proposed Well name: BIG SINKS DRAW 25-24 FED COM 7.31H Permitted BHL: NWNW, 330 FNL, 330 FWL, 24-25S-31E Proposed BHL: NWNW, 330 FNL, 990 FWL, 24-25S-31E Permitted TVD/MD: 11838/19239 Proposed TVD/MD: 12165/19462					arisi Op	oad FMNB erator C	Off Off opy	D ARTES
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #4 For DEVON ENERGY mitted to AFMSS for proce	Y PRODUCTIO	N COM L	.P, sent t	o the Carisi	baď		
Name (Printed/Typed) JENNIFER	RHARMS		Title	REGULA	TORY CO	MPLIANCE ANALY	ST	
Signature (Electronic S	ubmission)		Date (09/18/20	19	·		
·	THIS SPACE FO	R FEDERA	L OR S	TATE O	FFICE US	SE		
Approved By_LQNG_VO			TitlePE	TROLEU	M ENGINE	ER	D	ate 11/04/2019
Conditions of approval, if any, are attached ertify that the applicant holds legal or equivalent would entitle the applicant to condu-	itable title to those rights in the	not warrant or subject lease	Office (Carlsbad		·		
Fitle 18 U.S.C. Section 1001 and Title 43 t States any false, fictitious or fraudulent s	J.S.C. Section 1212, make it a catatements or representations as	crime for any per to any matter wit	son know hin its juri	ingly and wisdiction.	illfully to ma	ke to any department or	agency of	the United

(Instructions on page 2)
** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

VSC RW 1-21-2020

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy Prod Co

LEASE NO.: | LC062300

WELL NAME & NO.: 731H - Big Sinks Draw 25-24 Fed

SURFACE HOLE FOOTAGE: 2484'/N & 985/W BOTTOM HOLE FOOTAGE 330'/N & 990'/W

LOCATION: Section 25, T. 25 S., R.31 E. COUNTY: Eddy County, New Mexico

COA

H2S	∩ Yes	© No	
Potash	• None	Secretary	C R-111-P
Cave/Karst Potential	€ Low	○ Medium	← High
Cave/Karst Potential	Critical		
Variance	← None	Flex Hose	Other
Wellhead	Conventional	Multibowl	Both
Other	☐ 4 String Area	Capitan Reef	☐ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	☐ Water Disposal	СОМ	「 Unit

All Previous COAs Still Apply

A. CASING

Primary Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 1003 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength,

whichever is greater.

d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the $7\frac{1}{7}5/8$ inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Operator has proposed to pump down 13-3/8" X 7-5/8" annulus. Operator must run a CBL from TD of the 7-5/8" casing to surface. Submit results to BLM.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification.
 Cement excess is less than 25%, more cement might be required.

Alternate Casing Design:

- 4. The 13-3/8 inch surface casing shall be set at approximately 1003 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run

- to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- f. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- g. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- h. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

5. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Cement excess is less than 25%, more cement might be required.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- c. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- d. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Cement excess is less than 25%, more cement might be required.

Operator has proposed to pump down 13-3/8" X 8-5/8" annulus. Operator must run a CBL from TD of the 8-5/8" casing to surface. Submit results to BLM.

The operator is approved to drill a 10.625" hole instead of 9.875" for intermediate 1 with a BTC connection.

- 6. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification.
 Cement excess is less than 25%, more cement might be required.

B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. 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 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a

digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the

plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, no tests shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

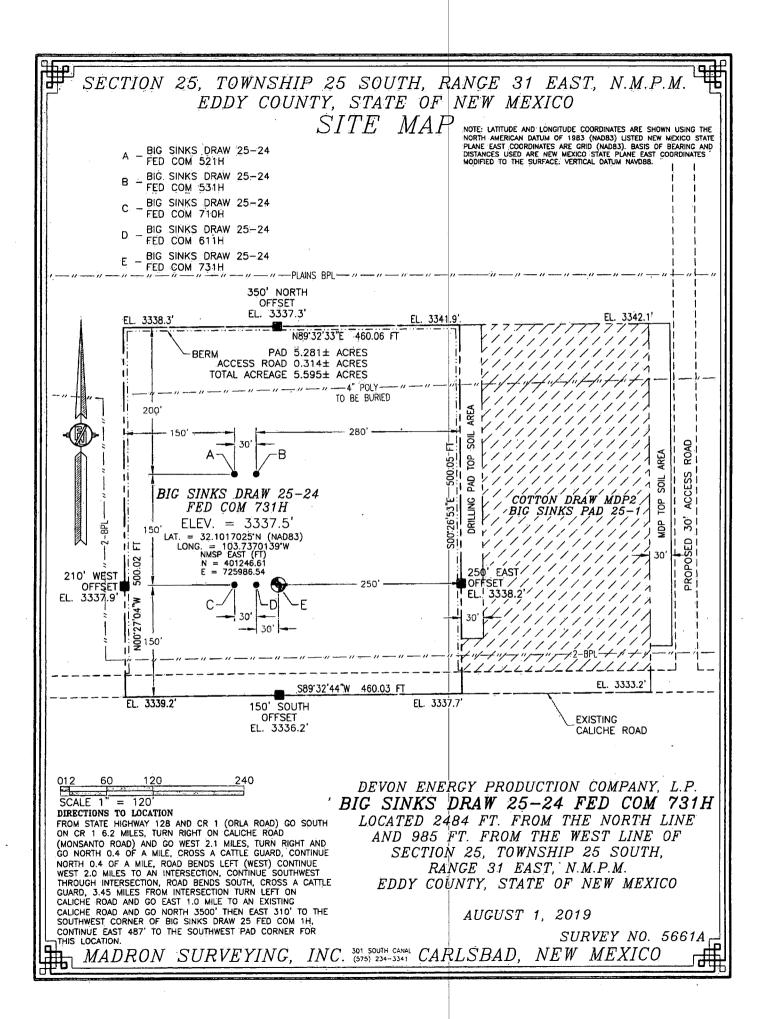
C. DRILLING MUD

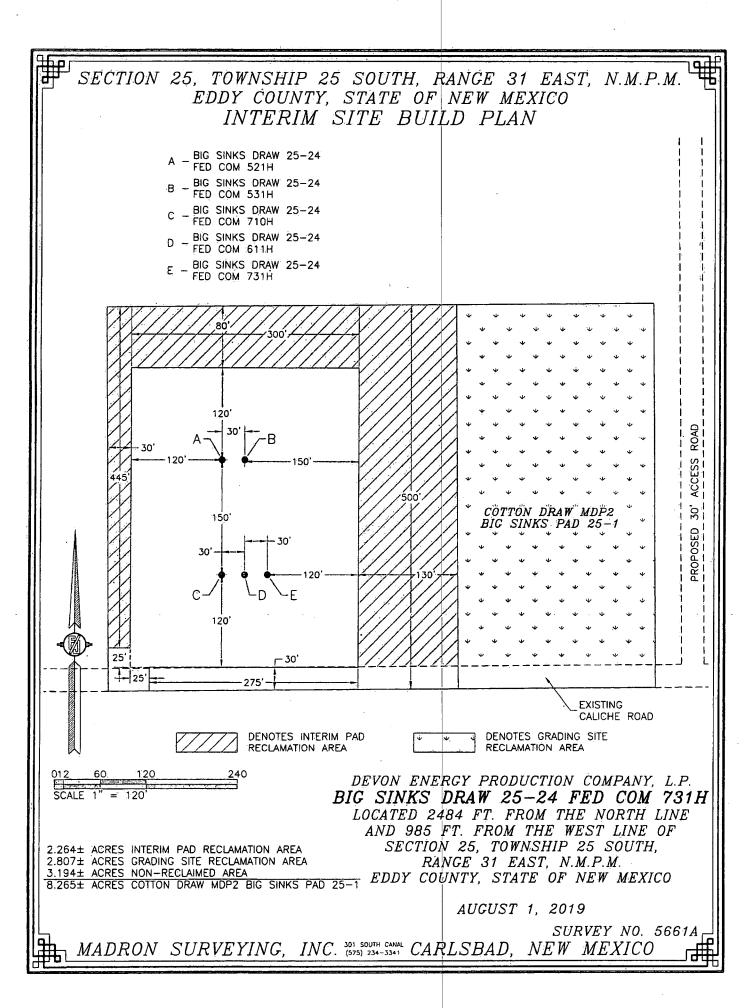
Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production easing is run and cemented.

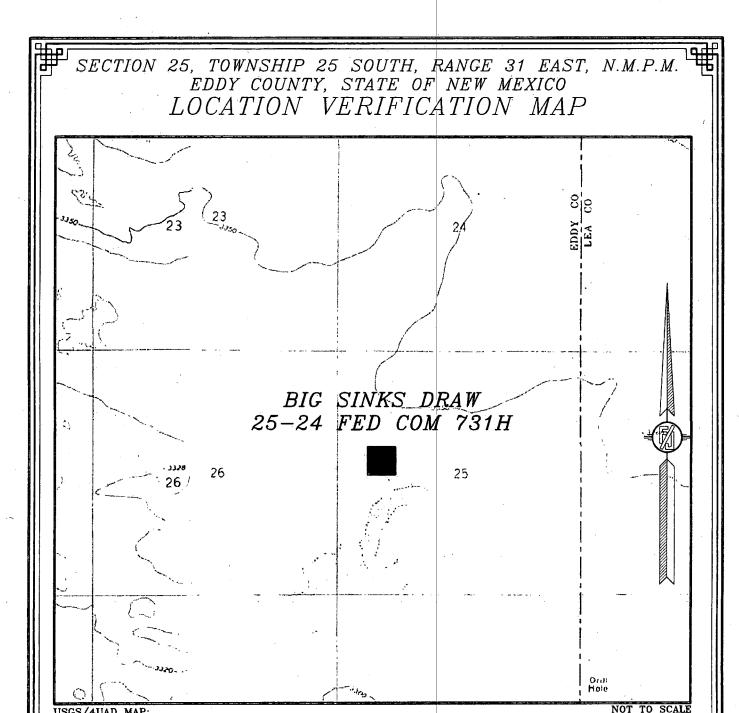
D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.







DEVON ENERGY PRODUCTION COMPANY, L.P.
BIG SINKS DRAW 25-24 FED COM 731H

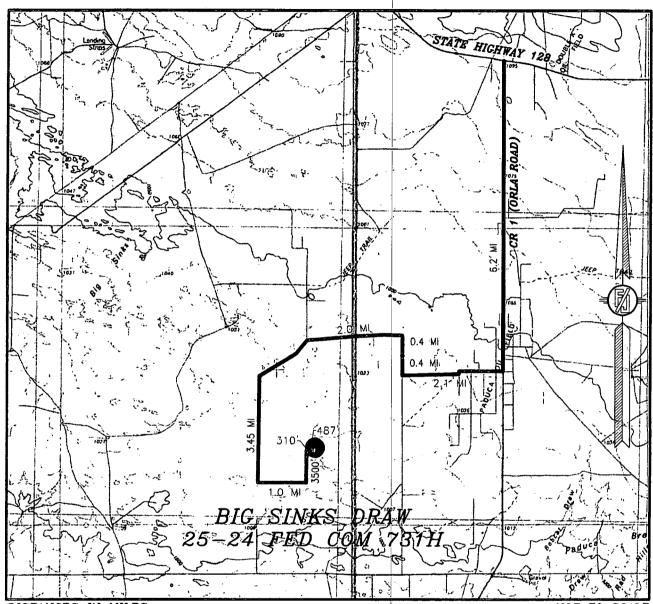
LOCATED 2484 FT. FROM THE NORTH LINE
AND 985 FT. FROM THE WEST LINE OF
SECTION 25, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

USGS/4UAD MAP: PADUCA BREAKS WEST

AUGUST 1, 2019

SURVEY NO. 5661A

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



DISTANCES IN MILES

NOT TO

DEVON ENERGY PRODUCTION COMPANY, L.P. BIG SINKS DRAW 25-24 FED COM 731H

DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR 1 (ORLA ROAD) GO SOUTH ON CR 1 6.2 MILES, TURN RIGHT ON CALICHE ROAD ON CR 1 6.2 MILES, TURN RIGHT ON CALICHE ROAD (MONSANTO ROAD) AND GO WEST 2.1 MILES, TURN RIGHT AND GO NORTH 0.4 OF A MILE, CROSS A CATTLE GUARD, CONTINUE NORTH 0.4 OF A MILE, ROAD BENDS LEFT (WEST) CONTINUE WEST 2.0 MILES TO AN INTERSECTION, CONTINUE SOUTHWEST THROUGH INTERSECTION, ROAD BENDS SOUTH, CROSS A CATTLE GUARD, 3.45 MILES FROM INTERSECTION TURN LEFT ON CALICHE ROAD AND GO EAST 1.0 MILE TO AN EXISTING CALICHE ROAD AND GO NORTH 3500' THEN EAST 310' TO THE SOUTHWEST CORNER OF BIG SINKS DRAW 25 FED COM 1H, CONTINUE EAST 487' TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

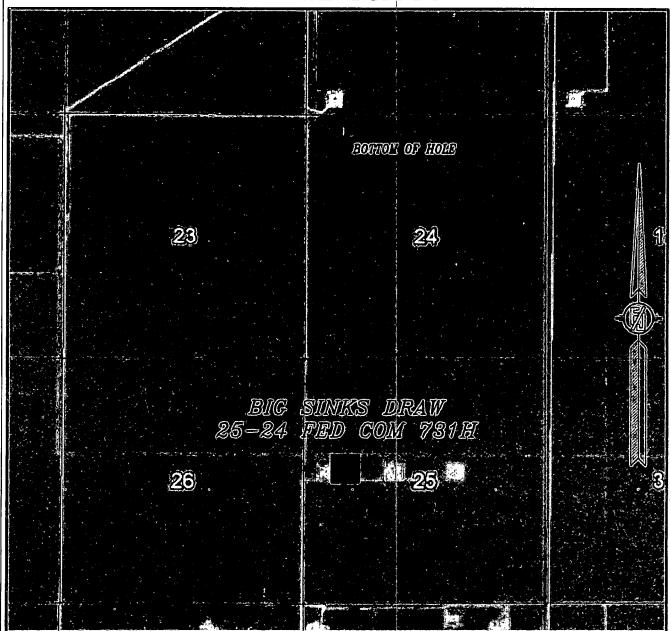
LOCATED 2484 FT. FROM THE NORTH LINE AND 985 FT. FROM THE WEST LINE OF SECTION 25, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 1, 2019

SURVEY NO. 5661A

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

AERIAL PHOTO



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOVEMBER 2015

DEVON ENERGY PRODUCTION COMPANY, L.P.

BIG SINKS DRAW 25-24 FED COM 731H

LOCATED 2484 FT. FROM THE NORTH LINE

AND 985 FT. FROM THE WEST LINE OF

SECTION 25, TOWNSHIP 25 SOUTH,

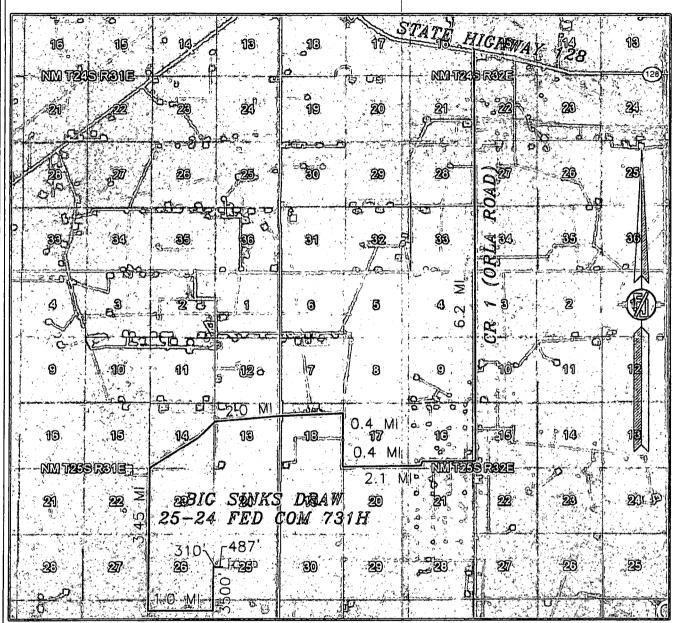
RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 1, 2019

SURVEY NO. 5661A

SECTION 25, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO ACCESS AERIAL ROUTE MAP



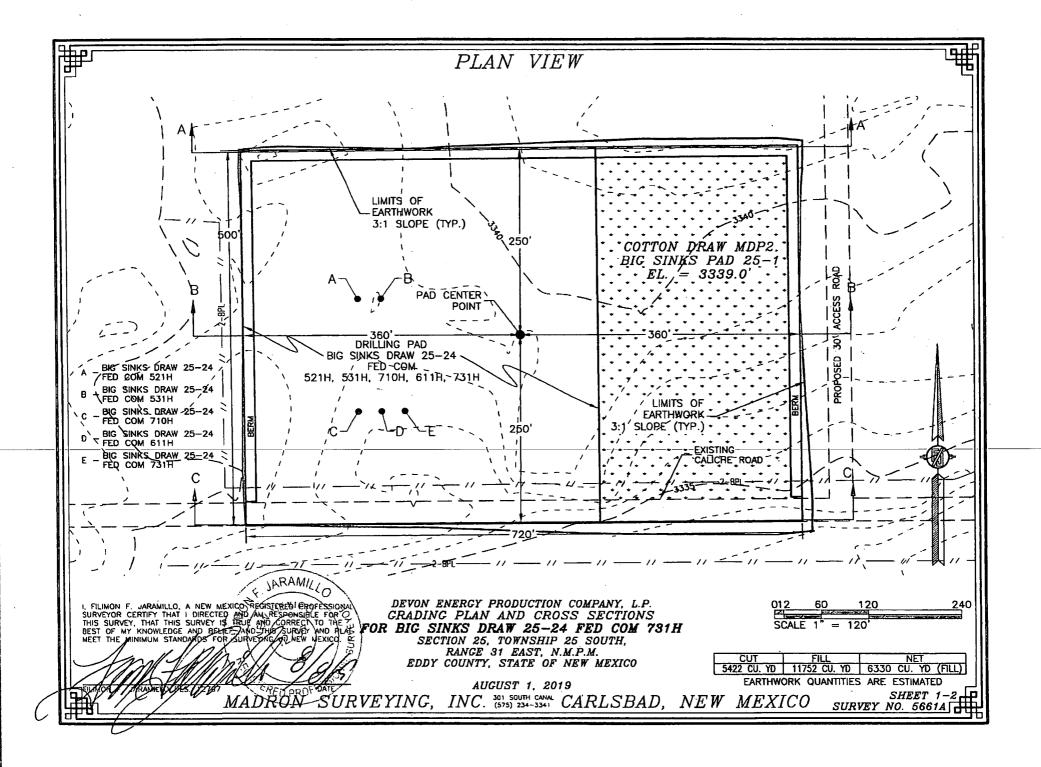
NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOVEMBER 2015

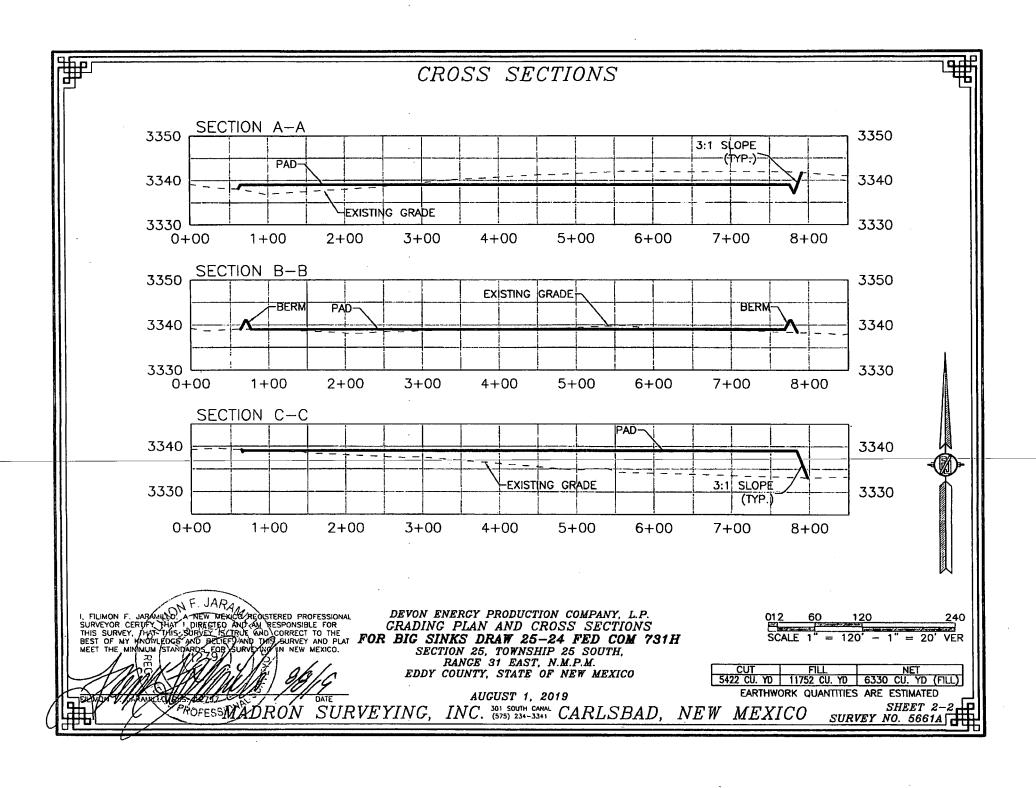
DEVON ENERGY PRODUCTION COMPANY, L.P.
BIG SINKS DRAW 25-24 FED COM 731H

LOCATED 2484 FT. FROM THE NORTH LINE
AND 985 FT. FROM THE WEST LINE OF
SECTION 25, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 1, 2019

SURVEY NO. 5661A





1. Geologic Formations

TVD of target	12165	Pilot hole depth	N/A
MD at TD:	19462	Deepest expected fresh water	

Basin

Basin				
Formation	Depth (TVD) from KB	Water/Min Bearing/Ta Zone?	rget	∗Hazards*
Rustler	950			
Salt	1315			
Base of Salt	4120			
Delaware	4350			
Bone Spring 1st	8325			
Bone Spring 2nd	9610			
Bone Spring 3rd	10480			
Wolfcamp	11670			· · · · · · · · · · · · · · · · · · ·

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

2. Casing Program (Primary Design)

Hole Size	Casing From	Interval To	Csg. Size	Wt (PPF)	Grade	Conn	Min SF Collapse	Min SF Burst	Min SF Tension
17 1/2	0	975 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	10480 7V D	7 5/8	29.7	P110	Flushmax III	1.125	1.25	1.6
6 3/4	0	TD	5 1/2	20.0	P110	Vam SG	1.125	1.25	1.6
	12165	BOOKS TV	v)	BLM N	Iinimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data/gamma, setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.
- A variance is requested to set intermediate casing in the curve if hole conditions dictate that a higher shoe strength is required.

Casing Program (Alternative Design)

Casing 1 regressit (rates matrix 2 corp.)							J:			
Hole Size	Casing From	Interval To-	Csg. Size	Wt (PPF)	Grade	Ćońn	Min SF Collapse	Min SF Burst	Min SF Tension	
17 1/2	0	975 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6	
9 7/8	0	10480 TVD	8 5/8	32.0	P110	TLW	1.125	1.25	1.6	
7 7/8	0	TD	5 1/2	17.0	P110	BTC	1.125	1.25	1.6	
				BLM N	Ainimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet	



- · All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data/gamma, setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.
- •Variance requested to drill 10.625" hole instead of 9.875" for intermediate 1, the 8.625" connection will change from TLW to
- · A variance is requested to set intermediate casing in the curve if hole conditions dictate that a higher shoe strength is required.

	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 specificition 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	37
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	Y
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?	

3. Cementing Program (Primary Design)

		D-/			
Casing - 1	#Sksv.;;	TOC	Wt (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	744	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	638	Surf	9	3.27	Lead: Class C Cement + additives
· IIIL I	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	819	Surf	9	3.27	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	93	500' above shoe	13.2	1.44	1st stage Tail: Cláss H / C + additives
w/ DV @ TVD of Delaware	404	Surf	9	3.27	2nd stage Lead: Class C Cement + additives
	93	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	9	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	638	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Production	59	9593	9.0	3.3	Lead: Class H /C + additives
Production	502	11593	13.2	1.4	Tail: Class H / C + additives
					· · · · · · · · · · · · · · · · · · ·

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

8K

\e55 Ann

75'lo

OF

3. Cementing Program (Alternative Design)

5. Cementing Frogram	(Alternative D	esign)				_
Casing	# 5ks	TOCA	Wth ppg	Yld (ft3/sack)	Slurry Description	
Surface	744	Surf	13.2	1.44	Lead: Class C Cement + additives	
T 1	418	Surf	9	3.27	Lead: Class C Cement + additives	rega sha
Int 1	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives	3696 ext
	481	Surf	9	3.27	1st stage Lead: Class C Cement + additives	
Int 1 Two Stage	55	500' above shoe	13.2	1.44	1st stage Tail: Class H / C + additives	<i>ب</i> اه [
w DV @ ~4500	281	Surf	9	3.27	2nd stage Lead: Class C Cement + additives	
	55	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives].
Int 1	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives]
Intermediate	418	Surf	9	3.27	Lead: Class C Cement + additives	
Squeeze	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives	
Int 1 (10.625" Hole Size)	601	Surf	9	3.27	Lead: Class C Cement + additives	.Nr
Int 1 (10.023 Hole Size)	768	4000' above shoe	13.2	1.44	Tail: Class H / C + additives	
Deschartion	117	9593	9.0	3.3	Lead: Class H /C + additives	1604 1/11
Production	1042	11593	13.2	1.4	Tail: Class H / C + additives	24.010 estect 5
				I		50-

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

W-

4	. Pressure Co	ontrol Equ	ipment (Thr	ee String Design)	

BOP installed and tested before drilling which hole?	Size?	Min. Require d WP		ype	\	Tested to:
***************************************				nular	X	50% of rated working pressure
Int 1	13-58"	5M		d Ram	X	
MIL I	13-36	J1V1		Ram		5M
	1		Doub	le Ram	X	2141
			Other*			
•		10M	Annul	ar (5M)	X	100% of rated working pressure
Production	13-5/8"		Blin	d Ram	X	
Troduction			Pipe	Ram		10M
				le Ram	X	I OIVI
			Other*			
		·	Annul	ar (5M)		
			Blin	d Ram		
			Pipe	Ram		
			Doub	le Ram		
			Other*			
N A variance is requested for	the use of a	diverter or	the surface	casing. See a	ttached for so	hematic.
Y A variance is requested to r	un a 5 M ann	nular on a	10M system			

5. Mud Program (Three String Design)

Section	Туре	We (p	ight og)
Surface	FW Gel	.8.	5-9
Intermediate	DBE / Cut Brine	10-	10.5
Production	OBM	10-	10.5

5V

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

6. Logging and Testing Procedures

V. 2055	and resting rocedures
Logging, (Coring and Testing
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the
X	Completion Report and shumitted 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.

Addition	al logs planned	Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Di iiii be conditions		<u> </u>	
Condition	Specfiy	what type and where?	
BH pressure at deepest TVD		6642	
Abnormal temperature		No	

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

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S 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.

N H2S is present
Y H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- ³ The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachment	S
X	Directional Plan
	Other, describe

WCDSC Permian NM

Eddy County (NAD 83 NM Eastern) Sec 25-T25S-R31E Big Sinks Draw 25-24 Fed Com 731H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

11 September, 2019

Database: Company: EDM r5000.141 Prod US

WCDSC Permian NM

Project:

Eddy County (NAD 83 NM Eastern)

Sité:

Sec 25-T25S-R31E

Well: Wellbore: Big Sinks Draw 25-24 Fed Com 731H

Wellbore #1 Permit Plan 1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Big Sinks Draw 25-24 Fed Com 731H

RKB @ 3362,50ft RKB @ 3362,50ft

Grid

Minimum Curvature

Project

Design:

Eddy County (NAD 83 NM Eastern)

Map System: Geo Datum: Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site

From:

Sec 25-T25S-R31E

Site Position:

Northing:

403,723,39 usft 724,993.28 usft

Latitude:

Longitude:

32.108526 -103.740178

Position Uncertainty:

Мар

Easting: 5.00 ft Slot Radius:

13-3/16

Grid Convergence:

0.32°

Well

Big Sinks Draw 25-24 Fed Com 731H

Well Position

+N/-S +É/-W 0.00 ft 0.00 ft 0.50 ft

Northing: Easting:

401,246,61 usft 725,986.54 usft

6.78

Latitude: Longitude:

32,101703 -103.737014

Position Uncertainty

Wellhead Elevation:

Ground Level:

3,337.50 ft

Wellbore

Wellbore #1

Permit Plan 1

Magnetics

Model Name

IGRF2015

Sample Date

9/9/2019

Declination

Dip Angle

Field Strength

(nT) 47,619,91914443

Design

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.00

59,90

Vertical Section:

Depth From (TVD) (ft) 0.00

÷N/-S (ft) 0.00

+Ė/-W '(ft)' 0.00

Direction-(°) 359.87

Plan Survey Tool Program

Date 9/11/2019

Depth From (ft)

Depth To (ft)

Survey (Wellbore)

Tool Name

Remarks

0.00

19,462.33 Permit Plan 1 (Wellbore #1)

MWD+HDGM

OWSG MWD + HDGM

Plan Sections				+		42 7 4 4				
Measured Depth (ft)	inclination	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E)-W (ft)	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	•
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,084.78	0.85	177.30	4,084.77	-0.63	0.03	1.00	1.00	0.00	177,30	
11,186.26	0.85	177.30	11,185.48	-105.58	4.98	0.00	0.00	0.00	0.00	
11,242.78	0.00	0.00	11,242.00	-106,00	5.00	1.50	-1.50	0.00	180,00	
11,592.82	0.00	0.00	11,592.04	-106.00	5.00	0,00	0.00	0.00	0.00	
12,492.82	90,00	359.84	12,165.00	466.96	3.37	10.00	10.00	0.00	359.84	PBHL - Big Sinks Dra
19,462.33	90.00	359,84	12,165.00	7,436.44	-16.48	0.00	0.00	0.00	0.00	PBHL - Big Sinks Dra

Database: Company:

EDM r5000.141_Prod US WCDSC Permian NM

Project: Site:

, Eddy County (NAD 83 NM Eastern)

Sec 25-T25S-R31E

Well: Wellbore: Big Sinks Draw 25-24 Fed Com 731H

Wellbore #1 Design: Permit Plan 1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Big Sinks Draw 25-24 Fed Com 731H

RKB @ 3362,50ft RKB @ 3362.50ft Grid

Measured			Vertical	र्न		Map	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft)	(°)	(°),	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	401,246,61		32,101703	-103,737
100.00	0.00	0.00	100.00	0.00	0.00	401,246.61		32.101703	-103.737
200.00	0.00	0.00	200.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.737
300.00	0.00	0.00	300.00	0.00	0.00	401,246.61	•	32.101703	-103,737
400.00	0.00	0.00	400.00	0.00	0.00	401,246.61		32.101703	-103,737
500.00	0.00	0.00	500.00	0.00	0.00	401,246.61		32.101703	-103.737
600.00	0.00	0.00	600.00	0.00	0.00	401,246.61		32.101703	-103.737
700.00	0.00	0,00	700.00	0:00	0.00	401,246.61		32.101703	-103.737
800,00	0.00	0,00	800.00	0.00	0.00	401,246.61	٠.	32,101703	-103,737
900,00	0.00	0.00	900.00	0.00	0.00	401,246.61		32,101703	-103.737
1,000.00	0.00	0.00	1,000.00	0.00	0.00	401,246.61		32.101703	-103.737
1,100.00	0.00	0.00	1,100.00	0.00	0.00	401,246.61	•	32.101703	-103.737
1,200.00	0,00	0.00	1,200.00	0.00	0.00	401,246.61	•	32,101703	-103.737
1,300.00	0.00	0.00	1,300.00	0.00	0.00	401,246.61	725,986.54	32,101703	-103.737
1,400.00	0.00	0.00	1,400.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.737
1,500.00	0.00	0.00	1,500.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.737
1,600.00	0.00	0.00	1,600.00	0.00	0.00	401,246.61		32,101703	-103,73
1,700.00	0.00	0.00	1,700.00	0:00	0.00	401,246.61	725,986.54	32.101703	-103.73
1,800.00	0.00	0.00	1,800.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.73
1,900.00	0.00	0.00	1,900.00	0.00	0.00	401,246.61		32.101703	-103.73
2,000.00	0.00	0.00	2,000.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.73
2,100.00	0.00	0.00	2,100.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.73
2,200.00	0.00	0.00	2,200.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.73
2,300.00	0.00	0.00	2,300.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.73
2,400.00	0.00	0.00	2,400.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.73
2,500.00	0.00	0.00	2,500.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.73
2,600.00	0.00	0.00	2,600.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.73
2,700.00	0.00	0.00	2,700.00	0.00	0.00	401,246,61	725,986.54	32.101703	-103.73
2,800.00	0.00	0.00	2,800.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.73
2,900.00	0.00	0.00	2,900.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.73
3,000.00	0.00	0.00	3,000.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.73
3,100.00	0.00	0.00	3,100.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.73
3,200.00	0.00	0.00	3,200.00	0,00	0.00	401,246,61	725,986.54	32,101703	-103,73
3,300.00	0.00	0,00	3,300.00	0.00	0,00	401,246.61	725,986.54	32.101703	-103.73
3,400.00	0.00	0.00	3,400.00	0.00	0.00	401,246.61	725,986.54	32.101703	-103.73
3,500.00	0.00		3,500.00	0.00	0:00	401,246.61	725,986,54	32.101703	-103.73
3,600.00	0.00	0.00	3,600.00	0.00	0.00	401,246,61	725,986,54	32,101703	-103.73
3,700.00 3,800.00	0.00	0.00	3,700,00	0.00	0.00	401,246.61	725,986.54	32,101703	-103,73
3,900.00	0.00	0.00 0.00	3,800.00	0.00	0.00	401,246.61	725,986.54	32,101703	-103.73
4,000.00	0.00 0.00	0.00	3,900.00 4,000.00	0.00 0.00	0.00	401,246.61	725,986.54 725,986,54	32.101703	-103.737
4,084.78			4,000.00	-0.63	0.00	401,246.61	•	32,101703	-103.737
	0.85	177,30			0.03	401,245,98	725,986,57	32,101701	-103.73
4,100.00	0.85	177.30	4,100.00	-0.85	0.04	401,245.76		32,101700	-103.737
4,200.00	0.85	177.30	4,199.98	-2.33	0.11	401,244.28	•	32.101696	-103.737
4,300.00	0.85	177.30	4,299,97	-3.81	0.18	401,242.80	725,986.72	32,101692	-103.737
4,400,00	0.85	177,30	4,399.96	-5.29	0.25	401,241.32		32.101688	-103,737
4,500.00	0.85	177.30	4,499.95	-6.76	0.32	401,239.85		32,101684	-103.737
4,600.00	0,85	177,30	4,599.94	-8.24	0.39	401,238.37	725,986.92	32.101680	-103.737
4,700.00	0.85	177,30	4,699.93	-9.72	0.46	401,236.89	725,986.99	32.101676	-103,737
4,800.00	0.85	177.30	4,799.92	-11.20	0.53	401,235.41	725,987.06	32.101672	-103.737
4,900.00	0.85	177.30	4,899.91	-12.68	0.60	401,233.93	725,987.13	32.101668	-103.737
5,000.00	0.85	177.30	4,999.90	-14.15	0.67	401,232.46	725,987.20	32.101664	-103,737
5,100,00	0.85	177.30	5,099.89	-15.63	0.74	401,230,98	725,987.27	32,101660	-103,737
5,200.00	0.85	177,30	5,199.87	-17,11	0.81	401,229.50	725,987.34	32.101656	-103,737
5,300.00	0.85	177.30	5,299.86	-18.59	0.88	401,228.02	725,987.41	32.101652	-103.73

Database: Company: EDM r5000.141_Prod US WCDSC Permian NM

Project: Site:

Eddy County (NAD 83 NM Eastern) Sec 25-T25S-R31E

Wěll: Wellbore: Design:

Big Sinks Draw 25-24 Fed Com 731H

Wellbore #1 Permit Plan 1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation, Method: Well Big Sinks Draw 25-24 Fed Com 731H

RKB @ 3362,50ft RKB @ 3362,50ft

Grid

Planned Survey										
Measured			Vertical			Map	Į.	Map		
Depth	inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	╢.	Easting		
(ft)	(°)	(*)	(ft)	(ft)	(ft).	(usft)	-	(usft)	Latitude	Longitude
5,400.00	0.85	177.30	5,399,85	-20.06	0.95	401,226	54	725,987.48	32,101647	-103.737011
5,500.00	0.85	177.30	5,499.84	-21.54	1.02	401,225	1		32.101643	-103.737011
5,600.00	0.85	177.30	5,599.83	-23.02	1.09	401,223	1	·	32.101639	-103.737011
5,700.00	0.85	177.30	5,699.82	-24.50	1.16	401,222	1		32.101635	-103.737011
5,800.00	0.85	177,30	5,799.81	-25.98	1:23	401,220	1	•	32.101631	-103,737011
5,900.00	0.85	177.30	5,899.80	-27.45	1.30	401,219	ļ	•	32.101627	-103.737010
6,000.00	0.85	177.30	5,999,79	-28.93	1.36	401,217	1	·	32.101623	-103.737010
6,100.00	0.85	177.30	6,099.78	-30.41	1.43	401,216	1	•	32,101619	-103.737010
6,200.00	0.85	177.30	6,199,77	-31,89	1.50	401,214			32,101615	-103.737010
6,300.00	0.85	177,30	6,299.75	-33.37	1.57	401,213	.24		32.101611	-103.737010
6,400.00	0:85	177.30	6,399.74	-34.84	1.64	401,211	.76	725,988.18	32.101607	-103.737009
6,500.00	0.85	177.30	6,499.73	-36,32	1.71	401,210	29	725,988.25	32.101603	-103.737009
6,600.00	0.85	177.30	6,599.72	-37.80	1.78	401,208	.81	725,988.32	32,101599	-103.737009
6,700.00	0.85	177.30	6,699.71	-39.28	1.85	401,207	33	725,988.39	32.101595	-103.737009
6,800.00	0.85	177.30	6,799.70	-40.76	1.92	401,205			32.101591	-103.737009
6,900.00	0.85	177.30	6,899.69	-42.23	1.99	401,204			32.101586	-103.737008
7,000,00	0.85	177,30	6,999.68	-43.71	2.06	401,202			32,101582	-103,737008
7,100.00	0.85	177.30	7,099.67	-4 5.19	2.13	401,201			32.101578	-103.737008
7,200.00	0.85	177,30	7,199.66	-46.67	2.20	401,199	1		32,101574	-103.737008
7,300.00	0.85	177.30	7,299.65	-48.15	2.27	401,198	1	•	32.101570	-103.737008
7,400,00	0.85	177.30	7,399.63	-49.62	2.34	401,196	1		32.101566	-103,737007
7,500.00	0.85	177.30	7,499.62	-51.10	2.41	401,195			32.101562	-103.737007
7,600.00	0.85	177.30	7,599.61	-52.58	2.48	401,194	1		32.101558	-103.737007
7,700.00	0.85	177.30	7,699.60	-54.06	2.55	401,192		•	32.101554	-103,737007
7,800.00	0.85	177.30	7,799.59	-55,54	2.62	401,191			32.101550	-103.737007
7,900.00	0.85	177.30	7,899.58	-57.01	2.69	401,189	1		32.101546	-103.737006
8,000.00	0.85	177.30	7,999.57	-58.49 50.07	2.76	401,188	1		32.101542	-103.737006
8,100.00	0.85	177,30	8,099,56	-59,97	2.83	401,186	1		32.101538	-103,737006
8,200.00 8,300.00	0.85 0.85	177,30. 177,30	8,199,55 8,299,54	-61.45 -62.93	2.90 2.97	401,185 401,183			32.101534 32.101530	-103.737006 -103.737006
8,400.00	0.85	177.30	8,399.52	-62.93 -64.40	3.04	401,183	1	·	32,101536 32,101526	-103.737005
8,500.00	0.85	177.30	8,499.51	-65.88	3.11	401,180	1	•	32,101521	-103.737005
8,600.00	0.85	177.30	8,599.50	-67.36	3,18	401,179			32,101517	-103,737005
8,700.00	0.85	177.30	8,699.49	-68,84	3,25	401,177	i		32,101517	-103,737005
8,800.00	0.85	177.30	8,799,48	-70,31	3,32	401,176			32,101509	-103.737005
8,900.00	0.85	177.30	8,899.47	-71.79	3,39	401,174			32,101505	-103,737004
9,000,00	0,85	177,30	8,999,46	-73.27	3,46	401,173		725,989,99	32,101501	-103.737004
9,100.00	0.85	177,30	9,099.45	-74.75	3.53	401,171			32,101497	-103,737004
9,200,00	0.85	177.30	9,199.44	-76.23	3.60	401,170		725,990.13	32,101493	-103,737004
9,300.00	0.85	177.30	9,299.43	-77.70	3.67	401,168	1	725,990.20	32.101489	-103.737004
9,400.00	0.85	177.30	9,399.42	-79.18	3.74	401,167	1	725,990.27	32,101485	-103,737004
9,500.00	0,85	177.30	9,499.40	-80.66	3.80	401,165	i	725,990,34	32,101481	-103,737003
9,600.00	0.85	177.30	9,599.39	-82.14	3.87	401,164		725,990.41	32,101477	-103,737003
9,700.00	0.85	177.30	9,699.38	-83.62	3.94	401,162		725,990.48	32.101473	-103.737003
9,800,00	0.85	177.30	9,799.37	-85,09	4.01	401,161	.51	725,990.55	32,101469	-103,737003
9,900.00	0.85	177.30	9,899.36	-86.57	4.08	401,160		725,990.62	32,101465	-103,737003
10,000.00	0.85	177.30	9,999.35	-88.05	4.15	401,158			32.101461	-103,737002
10,100.00	0.85	177.30	10,099.34	-89.53	4.22	401,157	.08	725,990.76	32.101456	-103,737002
10,200.00	0.85	177.30	10,199.33	-91.01	4.29	401,155			32,101452	-103,737002
10,300.00	0.85	177.30	10,299.32	-92.48	4.36	401,154	.13	725,990.90	32,101448	-103,737002
10,400.00	0.85	177.30	10,399.31	-93.96	4.43	401,152	l		32.101444	-103,737002
10,500.00	0.85	177.30	10,499.29	-95.44	4,50	401,151	1	725,991.04	32,101440	-103,737001
10,600.00	0.85	177.30	10,599,28	-96,92	4.57	401,149	.69	725,991.11	32,101436	-103,737001
10,700.00	0,85	177.30	10,699.27	-98.40	4.64	401,148	.21	725,991.18	32,101432	-103,737001
10,800.00	0.85	177.30	10,799.26	-99.87	4,71	401,146	.74	725,991,25	32.101428	-103,737001

Database: Company: EDM r5000.141_Prod US WCDSC Permian NM

Project: Site:

Eddy County (NAD 83 NM Eastern)

Well: Wellbore: Design:

Sec 25-T25S-R31E

Big Sinks Draw 25-24 Fed Com 731H

Wellbore #1 Permit Plan 1 Local Co-ordinate Reference:

TVD Reference: North Reference:

Survey Calculation Method:

... Well Big Sinks Draw 25-24 Fed Com 731H

RKB @ 3362,50ft

RKB @ 3362,50ft

Grid

Measured	Planned Survey	, e ee.		· · · · · · · · · · · · · · · · · · ·	7/**			-		· · · · · · · · · · · · · · · · · · ·	
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10,900,00 0,85 177,30 10,899,25 101,35 4,76 401,445,28 725,991,32 32,101424 1103,737001 11,100,00 0,85 177,30 11,099,24 104,83 4,86 401,143,78 723,991,39 32,101424 1103,737001 11,100,00 0,85 177,30 11,099,24 104,83 4,82 401,143,78 723,991,39 32,101426 103,737001 11,100,00 0,85 177,30 11,099,24 104,83 4,92 401,144,83 723,991,39 32,101412 103,737001 11,100,00 0,85 177,30 11,099,24 104,83 4,92 401,144,83 723,991,39 32,101412 103,737001 11,100,00 0,95 177,30 11,099,24 105,00 105,78 4,99 401,144,81 725,991,54 32,101411 103,737001 11,300,00 0,00 0,00 0,00 11,294,22 105,00 5,00 401,144,81 725,991,54 32,101411 103,737001 11,500,00 0,00 0,00 0,00 11,499,22 105,00 5,00 401,144,81 725,991,54 32,101411 103,737001 11,500,00 0,00 0,00 0,00 11,499,22 105,00 5,00 401,144,81 725,991,54 32,101411 103,737001 11,500,00 0,00 0,00 10,1499,22 105,00 5,00 401,144,81 725,991,54 32,101411 103,737000 11,500,00 0,00 0,00 11,499,22 105,00 5,00 401,144,81 725,991,54 32,101411 103,737000 11,500,00 0,72 335,94 11,590,40 105,40										Latitude	Londitude
111000.00 0.85 177.30 1.0989.24 -102.83 4.85 401,143/8 72.5991.59 32.010419 1.037.37000 1.1180.26 0.85 177.30 1.1190.23 -1016.13 1.000.00 0.85 177.30 1.1190.23 -1016.00 0.500 401,140/8 725.991.52 32.010412 -1037.37000 1.1200.00 0.04 1.77.30 1.1190.22 -105.00 5.00 401,140/8 725.991.52 32.010412 -1037.37000 1.1300.00 0.00 0.00 1.1292.22 -105.00 5.00 401,140/8 725.991.52 32.010412 -1037.37000 1.1300.00 0.00 0.00 0.00 1.1399.22 -105.00 5.00 401,140/8 725.991.54 32.010411 -1037.37000 1.1500.00 0.00 0.00 0.00 1.1399.22 -105.00 5.00 401,140/8 725.991.54 32.010411 -1037.37000 1.1500.00 0.00 0.00 0.00 1.1592.24 -105.00 5.00 401,140/8 725.991.54 32.010411 -1037.37000 1.1500.00 0.00 0.00 0.00 1.1592.24 -105.00 5.00 401,140/8 725.991.54 32.010411 -1037.37000 1.1500.00 0.00 0.00 0.00 1.1592.24 -105.00 5.00 401,140/8 725.991.54 32.010411 -1037.37000 1.1500.00 0.00 0.00 0.00 1.1592.24 -105.00 5.00 401,140/8 725.991.54 32.010411 -1037.37000 1.1500.00 0.00 0.00 0.00 1.1592.24 -105.00 5.00 401,140/8 725.991.54 32.010411 -1037.37000 1.1500.00 0.00 1.07 2 389.84 1.1599.22 -105.86 5.00 401,140/8 725.991.54 32.010411 -1037.37000 1.1700.00 1.07 2 389.84 1.1599.22 -105.86 5.00 401,140/8 725.991.54 32.010411 -1037.37000 1.1700.00 1.07 2 389.84 1.1599.22 -105.86 5.00 401,140/8 725.991.54 32.010413 -1037.37000 1.1800.00 2.07 2 389.84 1.1594.72 -8.95 -8.95 -8.00 4.97 401,140/8 725.991.54 32.010413 -1037.37000 1.1800.00 3.07 2 389.84 1.1294.72 -8.95 -8.95 -8.00 4.97 401,140/8 725.991.54 32.010413 -1037.37000 1.1800.00 3.07 2 389.84 1.1294.72 -8.05 -8.95 -8.00 4.97 401,140/8 725.991.33 32.101543 -1037.37900 1.1800.00 3.07 2 389.84 1.1294.72 -8.05 -8.95 -8.00 4.97 401,140/8 725.991.33 32.101543 -1037.37900 1.1800.00 3.07 2 389.84 1.1294.72 -8.05 -8.95 -8.00 4.97 401,140/8 725.991.33 32.101543 -1037.37900 1.1800.00 3.07 2 389.84 1.1294.72 -8.05 -8.05 -8.00 4.97 401,140/8 725.991.33 32.101543 -1037.37900 1.1800.00 3.07 2 389.84 1.1294.72 -8.05 -8.05 -8.05 -8.05 -8.05 -8.05 -8.05 -8.05 -8.05 -8.05 -8.05 -8.05 -8.05 -8.05 -8.05 -8.05 -8.05 -8.05				. *		· · · · · ·					
11.100.00	1										
11.186.28 0.55 177.30 11.196.24 0.105.58 4.99 401.141 03 725.991.52 32.101412 -103.737000 11.242.00 0.04 17.73 0.11.196.22 -105.00 5.00 401.140 61 725.991.54 32.101411 -103.737000 11.1300.00 0.00 0.00 11.242.00 1.006.00 5.00 401.140 61 725.991.54 32.101411 -103.737000 11.1500.00 0.00 0.00 0.00 11.390.22 -105.00 5.00 401.140 61 725.991.54 32.101411 -103.737000 11.550.00 0.00 0.00 0.00 11.592.04 -105.00 5.00 401.140 61 725.991.54 32.101411 -103.737000 11.550.00 0.00 0.00 0.00 11.592.04 -105.00 5.00 401.140 61 725.991.54 32.101411 -103.737000 11.550.00 0.00 0.00 0.00 1.00 11.592.04 -105.00 5.00 401.140 61 725.991.54 32.101411 -103.737000 11.550.00 0.00 10.72 358.84 11.688.59 -85.00 401.140 65 725.991.54 32.101411 -103.737000 11.750.00 10.72 358.84 11.688.59 -85.00 401.140 65 725.991.54 32.101413 -103.737000 11.830.00 2.07 2 359.84 11.268.59 -85.00 401.140 65 725.991.54 32.101413 -103.737000 11.830.00 3.07 2 359.84 11.268.59 -85.00 401.140 65 725.991.54 32.101413 -103.737000 11.830.00 3.07 2 359.84 11.268.70 4.88 401.170.66 725.991.54 32.101413 -103.737000 11.830.00 3.07 2 359.84 11.268.70 3.269 4.86 401.170.66 725.991.54 32.101513 -103.737000 11.830.00 5.07 2 359.84 11.898.20 3.269 4.86 401.170.66 725.991.54 32.101513 -103.738090 12.200.00 60.72 359.84 11.268.00 3.269 4.86 401.470.66 725.991.14 32.10152 -103.738090 12.200.00 60.72 359.84 12.200.58 3 104.19 1.867.2 4.17 401.425.00 725.991.14 32.10152 -103.738090 12.200.00 60.72 359.84 12.200.58 3 104.19 1.867.2 4.17 401.425.00 725.991.14 32.10152 -103.738090 12.200.00 60.72 359.84 12.165.00 5.00 401.40 14.00 14.	1			•				1	·		
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11;300 00 0.00 11;242 00 106.00 5.00 401;40 s1 725,991.54 32;101411 103,737000 11,000 0.00 0.00 11;399 22 -106.00 5.00 401;40 s1 725,991.54 32;101411 -103,737000 11,592.82 0.00 0.00 11,592.04 -106.00 5.00 401;40 s1 725,991.54 32;101411 -103,737000 11,592.82 0.00 0.00 11,592.04 -106.00 5.00 401;40 s1 725,991.54 32;101411 -103,737000 11,592.82 0.00 0.00 11,592.04 -106.00 5.00 401;40 s1 725,991.54 32;101411 -103,737000 11,592.82 0.00 0.00 11,592.04 -106.00 5.00 401;40 s1 725,991.54 32;101411 -103,737000 11,592.82 0.00 0.00 17,2 359.84 11,599.22 -105.96 5.00 401;40 s1 725,991.54 32;101411 -103,737000 11,592.82 0.00 0.77 359.84 11,599.22 -105.96 5.00 401;40 s1 725,991.54 32;101411 -103,737000 11,593.96 11,593.94 11,594.79 -88.95 48 401;176,60 725,991.51 32;101439 -103,737000 11,593.96 11,593.94 11,594.79 -88.95 48 401;176,60 725,991.51 32;101439 -103,737000 11,593.96 11,593.94 11,593.92 11,594.94 1	1						•	1	· ·		
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13,600.00 90.00 359.84 12,165.00 1,574.13 0.22 402,820,73 725,986.75 32.106030 -103.736985 13,700.00 90.00 359.84 12,165.00 1,674.13 -0.07 402,920,73 725,986.47 32.106304 -103.736984 13,800.00 90.00 359.84 12,165.00 1,774.13 -0.35 403,020,73 725,986.18 32.106579 -103.736984 14,000.00 90.00 359.84 12,165.00 1,874.13 -0.64 403,120,73 725,985.61 32.106854 -103.736983 14,000.00 90.00 359.84 12,165.00 2,074.13 -1.21 403,320,73 725,985.61 32.107129 -103.736982 14,000.00 90.00 359.84 12,165.00 2,074.13 -1.21 403,320,73 725,985.61 32.107129 -103.736982 14,000.00 90.00 359.84 12,165.00 2,074.13 -1.21 403,320,73 725,985.61 32.107404 -103.736981 14,200.00 90.00 359.84 12,165.00 2,174.13 -1.49 403,420,73 725,985.04 32.107679 -103.736980 14,300.00 90.00 359.84 12,165.00 2,274.12 -1.78 403,520,73 725,984.76 32.107679 -103.736980 14,400.00 90.00 359.84 12,165.00 2,374.12 -2.06 403,620,73 725,984.77 32.108229 -103.736978 14,500.00 90.00 359.84 12,165.00 2,474.12 -2.35 403,720,73 725,984.19 32.108229 -103.736978 14,510.00 90.00 359.84 12,165.00 2,474.12 -2.38 403,730,73 725,984.16 32.108504 -103.736978 14,600.00 90.00 359.84 12,165.00 2,474.12 -2.38 403,730,73 725,984.16 32.108503 -103.736978 14,600.00 90.00 359.84 12,165.00 2,474.12 -2.38 403,730,73 725,984.16 32.108503 -103.736978 14,600.00 90.00 359.84 12,165.00 2,574.12 -2.63 403,820,73 725,984.16 32.108503 -103.736978 14,600.00 90.00 359.84 12,165.00 2,574.12 -2.63 403,820,73 725,983.90 32.108503 -103.736978 14,600.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.30 32.108503 -103.736978 14,600.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.30 32.109603 -103.736978 14,600.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.30 32.109603 -103.736978 14,600.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.30 32.109603 -103.736978 14,600.00 90.00 359.84 12,165.00 2,674.12 -3.20 404,020,73 725,983.30 32.109603 -103.736978 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.40 404,220,73 725,982.48 32.110153 -103.736978 15,000.00 90.00 359.84		90.00	359.84	12,165.00	1,374.13	0.78	402,620	.73	725,987.32	32.105480	-103,736987
13,700.00 90.00 359.84 12,165.00 1,674.13 -0.07 402,920,73 725,986.47 32.106304 -103.736984 13,800.00 90.00 359.84 12,165.00 1,774.13 -0.35 403,020,73 725,986.18 32,106579 -103.736984 13,900.00 90.00 359.84 12,165.00 1,874.13 -0.84 403,120,73 725,985.90 32.106854 -103.736983 14,000.00 90.00 359.84 12,165.00 1,974.13 -0.92 403,220,73 725,985.61 32.107129 -103.736982 14,100.00 90.00 359.84 12,165.00 2,074.13 -1.21 403,320,73 725,985.61 32.107404 -103.736981 14,200.00 90.00 359.84 12,165.00 2,074.13 -1.21 403,320,73 725,985.04 32.107679 -103.736980 14,300.00 90.00 359.84 12,165.00 2,274.12 -1.78 403,520,73 725,985.04 32.107679 -103.736980 14,400.00 90.00 359.84 12,165.00 2,374.12 -2.06 403,620,73 725,984.76 32.107954 -103.736978 14,500.00 90.00 359.84 12,165.00 2,474.12 -2.35 403,720,73 725,984.19 32.10829 -103.736978 14,500.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,720,73 725,984.16 32.108504 -103.736978 14,600.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,730,73 725,984.16 32.108504 -103.736977 14,600.00 90.00 359.84 12,165.00 2,674.12 -2.38 403,730,73 725,984.16 32.108778 -103.736977 14,700.00 90.00 359.84 12,165.00 2,674.12 -2.38 403,820,73 725,983.90 32.108778 -103.736977 14,600.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.90 32.108778 -103.736977 14,600.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.90 32.108778 -103.736977 14,600.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.62 32.109053 -103.736975 14,900.00 90.00 359.84 12,165.00 2,674.12 -3.20 404,020,73 725,983.30 32.109878 -103.736975 15,000.00 90.00 359.84 12,165.00 2,674.12 -3.20 404,020,73 725,983.30 32.109878 -103.736975 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220,73 725,982.76 32.109603 -103.736977 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220,73 725,982.76 32.109603 -103.736977 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.19 32.110428 -103.736971 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.19 32.110428 -103.736971 15,000.00 90.00 359.84		90.00	359.84	12,165.00	1,474.13	0.50	402,720	.73	725,987.04	32.105755	-103,736986
13,800.00 90.00 359.84 12,165.00 1,774.13 -0.35 403,020.73 725,986.18 32.106579 -103.736984 13,900.00 90.00 359.84 12,165.00 1,874.13 -0.64 403,120.73 725,985.90 32.106854 -103.736983 14,000.00 90.00 359.84 12,165.00 2,074.13 -1.21 403,320.73 725,985.61 32.107129 -103.736984 14,200.00 90.00 359.84 12,165.00 2,074.13 -1.21 403,320.73 725,985.61 32.107404 -103.736981 14,200.00 90.00 359.84 12,165.00 2,174.13 -1.21 403,320.73 725,985.04 32.107679 -103.736981 14,300.00 90.00 359.84 12,165.00 2,274.12 -1.78 403,520.73 725,984.76 32.107954 -103.736980 14,500.00 90.00 359.84 12,165.00 2,374.12 -2.06 403,620.73 725,984.47 32.108229 -103.736978 14,500.00 90.00 359.84 12,165.00 2,474.12 -2.35 403,720.73 725,984.16 32.108229 -103.736978 14,510.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,720.73 725,984.16 32.108504 -103.736978 14,500.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,720.73 725,984.16 32.108504 -103.736977 14,600.00 90.00 359.84 12,165.00 2,674.12 -2.38 403,730.73 725,984.16 32.108504 -103.736977 14,700.00 90.00 359.84 12,165.00 2,674.12 -2.38 403,730.73 725,984.16 32.108504 -103.736977 14,700.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920.73 725,983.90 32.108503 -103.736977 14,800.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920.73 725,983.90 32.109503 -103.736976 14,800.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920.73 725,983.33 32.109328 -103.736976 14,900.00 90.00 359.84 12,165.00 2,774.12 -3.20 404,020.73 725,983.05 32.109603 -103.736974 15,000.00 90.00 359.84 12,165.00 2,874.12 -3.49 404,120.73 725,983.05 32.109603 -103.736978 15,000.00 90.00 359.84 12,165.00 2,874.12 -3.77 404,220.73 725,983.05 32.109603 -103.736978 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320.72 725,982.19 32.110428 -103.736978 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320.72 725,982.19 32.110428 -103.736978 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320.72 725,982.19 32.110428 -103.736971 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320.72 725,982.19 32.110428 -103.736971	13,600.00	90.00	359.84	12,165.00	1,574.13	0.22	402,820	.73	725,986.75	32.106030	-103.736985
13,900.00 90.00 359.84 12,165.00 1,874.13 -0.64 403,120,73 725,985.90 32.106854 -103.736983 14,000.00 90.00 359.84 12,165.00 2,074.13 -1.21 403,320,73 725,985.61 32.107129 -103.736981 14,200.00 90.00 359.84 12,165.00 2,174.13 -1.49 403,420,73 725,985.61 32.107404 -103.736981 14,200.00 90.00 359.84 12,165.00 2,274.12 -1.78 403,520,73 725,985.04 32.107679 -103.736980 14,300.00 90.00 359.84 12,165.00 2,374.12 -2.06 403,620,73 725,984.76 32.107954 -103.736978 14,500.00 90.00 359.84 12,165.00 2,474.12 -2.35 403,720,73 725,984.47 32.108229 -103.736978 14,510.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,720,73 725,984.16 32.108504 -103.736978 14,600.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,730,73 725,984.16 32.108504 -103.736978 14,600.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,730,73 725,984.16 32.108531 -103.736978 14,600.00 90.00 359.84 12,165.00 2,574.12 -2.63 403,820,73 725,984.16 32.108531 -103.736978 14,600.00 90.00 359.84 12,165.00 2,574.12 -2.63 403,820,73 725,983.90 32.108778 -103.736977 14,700.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.62 32.109053 -103.736976 14,800.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.62 32.109053 -103.736976 14,800.00 90.00 359.84 12,165.00 2,874.12 -3.20 404,020,73 725,983.33 32.109328 -103.736978 15,000.00 90.00 359.84 12,165.00 2,874.12 -3.49 404,120,73 725,983.05 32.109603 -103.736978 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220,73 725,983.05 32.109603 -103.736978 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220,73 725,982.76 32.109878 -103.736978 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220,73 725,982.76 32.109878 -103.736978 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.19 32.110428 -103.736978 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.19 32.110428 -103.736978 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.19 32.110428 -103.736978 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.19 32.110428 -103.736978 15,000.00 90.00 359.84	13,700.00	90.00	359.84	12,165.00	1,674.13	-0.07	402,920	.73	725,986.47	32.106304	-103.736984
14,000.00 90.00 359.84 12,165.00 1,974.13 -0.92 403,220,73 725,985.61 32.107129 -103.736982 14,100.00 90.00 359.84 12,165.00 2,074.13 -1.21 403,320,73 725,985.04 32.107679 -103.736981 14,200.00 90.00 359.84 12,165.00 2,274.12 -1.78 403,520,73 725,985.04 32.107679 -103.736980 14,300.00 90.00 359.84 12,165.00 2,274.12 -1.78 403,520,73 725,984.76 32.107954 -103.736979 14,400.00 90.00 359.84 12,165.00 2,374.12 -2.06 403,620,73 725,984.47 32.108229 -103.736978 14,510.00 90.00 359.84 12,165.00 2,474.12 -2.35 403,720,73 725,984.19 32.108504 -103.736978 14,510.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,730,73 725,984.16 32.108531 -103.736977 Cross section @ 14510' MD, 0' FSL, 990' FWL 14,600.00 90.00 359.84 12,165.00 2,574.12 -2.63 403,820,73 725,983.90 32.108778 -103.736977 14,700.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.90 32.10878 -103.736977 14,800.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.90 32.10878 -103.736975 14,800.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.62 32.109053 -103.736975 14,900.00 90.00 359.84 12,165.00 2,874.12 -3.20 404,020,73 725,983.33 32.109328 -103.736975 14,900.00 90.00 359.84 12,165.00 2,874.12 -3.20 404,020,73 725,983.05 32.109603 -103.736974 15,000.00 90.00 359.84 12,165.00 2,874.12 -3.49 404,120,73 725,983.05 32.109603 -103.736974 15,000.00 90.00 359.84 12,165.00 2,874.12 -3.49 404,120,73 725,982.76 32.109878 -103.736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220,73 725,982.76 32.109878 -103.736973 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.48 32.110153 -103.736972 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.19 32.110428 -103.736971 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.19 32.110428 -103.736971 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.19 32.110428 -103.736971 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.19 32.110428 -103.736971 15,000.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.19 32	13,800.00	90.00	359.84	12,165.00	1,774.13	-0.35	403,020	.73	725,986.18	32,106579	-103,736984
14,000.00 90.00 359.84 12,165.00 1,974.13 -0.92 403,220,73 725,985.61 32.107129 -103,736982 14,100.00 90.00 359.84 12,165.00 2,174.13 -1.21 403,320,73 725,985.33 32.107404 -103,736981 14,200.00 90.00 359.84 12,165.00 2,274.12 -1.78 403,520,73 725,985.04 32.107679 -103,736980 14,300.00 90.00 359.84 12,165.00 2,374.12 -2.06 403,620,73 725,984.76 32.107954 -103,736978 14,500.00 90.00 359.84 12,165.00 2,474.12 -2.35 403,720,73 725,984.47 32.108229 -103,736978 14,510.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,730,73 725,984.19 32.108504 -103,736978 14,600.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,730,73 725,984.16 32.108531 -103,736977 14,700.00 90.00 359.84 12,165.00 2,574.12 -2.63 403,820,73 725,984.16 32.108531 -103,736977 14,700.00 90.00 359.84 12,165.00 2,574.12 -2.63 403,820,73 725,983.90 32.108778 -103,736977 14,700.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.62 32.109053 -103,736976 14,800.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.62 32.109053 -103,736976 14,800.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.62 32.109053 -103,736976 14,800.00 90.00 359.84 12,165.00 2,874.12 -3.20 404,020,73 725,983.33 32.109803 -103,736974 15,000.00 90.00 359.84 12,165.00 2,874.12 -3.49 404,120,73 725,983.05 32.109603 -103,736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.49 404,120,73 725,983.05 32.109603 -103,736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.49 404,120,73 725,983.05 32.109878 -103,736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220,73 725,982.76 32.109878 -103,736973 15,100.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.48 32.110153 -103,736972 15,200.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.19 32.110428 -103,736971	13,900.00	90,00	359.84	12,165.00	1,874.13	-0.64				32,106854	-103,736983
14,200.00 90.00 359.84 12,165.00 2,274.12 -1,78 403,520,73 725,985.04 32.107679 -103,736980 14,300.00 90.00 359.84 12,165.00 2,374.12 -2.06 403,620,73 725,984.47 32.108229 -103,736978 14,500.00 90.00 359.84 12,165.00 2,474.12 -2.35 403,720,73 725,984.19 32.108504 -103,736978 14,510.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,730,73 725,984.16 32.108531 -103,736977 **Cross section @ 14510' MD, 0' FSL, 990' FWL 14,600.00 90.00 359.84 12,165.00 2,574.12 -2.63 403,820,73 725,983.90 32.108778 -103,736977 14,700.00 90.00 359.84 12,165.00 2,674.12 -2.63 403,820,73 725,983.90 32.108778 -103,736977 14,800.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.62 32.109053 -103,736976 14,800.00 90.00 359.84 12,165.00 2,774.12 -3.20 404,020,73 725,983.33 32.109328 -103,736975 14,900.00 90.00 359.84 12,165.00 2,874.12 -3.49 404,120,73 725,983.05 32.109603 -103,736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.49 404,120,73 725,983.05 32.109603 -103,736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220,73 725,982.76 32.109878 -103,736973 15,100.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.48 32.110153 -103,736972 15,200.00 90.00 359.84 12,165.00 3,174.12 -4.34 404,420,72 725,982.19 32.110428 -103,736971	14,000.00	90.00	359.84	12,165.00	1,974.13	-0.92	403,220	.73	725,985.61	32.107129	
14,300.00 90.00 359.84 12,165.00 2,274.12 -1,78 403,520,73 725,984.76 32.107954 -103,736979 14,400.00 90.00 359.84 12,165.00 2,374.12 -2.06 403,620,73 725,984.47 32.108229 -103,736978 14,500.00 90.00 359.84 12,165.00 2,474.12 -2.35 403,720,73 725,984.19 32.108504 -103,736978 14,510.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,730,73 725,984.16 32.108531 -103,736977 Cross section @ 14510' MD, 0' FSL, 990' FWL 14,600.00 90.00 359.84 12,165.00 2,574.12 -2.63 403,820,73 725,983.90 32.108778 -103,736977 14,700.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.62 32.109053 -103,736976 14,800.00 90.00 359.84 12,165.00 2,774.12 -3.20 404,020,73 725,983.33 32.109328 -103,736975 14,900.00 90.00 359.84 12,165.00 2,874.12 -3.49 404,120,73 725,983.05 32.109603 -103,736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220,73 725,982.76 32.109678 -103,736973 15,100.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.48 32.110153 -103,736972 15,200.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.19 32.110428 -103,736971	14,100.00	90,00		12,165.00	2,074.13				· ·	32.107404	
14,400.00 90.00 359.84 12,165.00 2,374.12 -2.06 403,620.73 725,984.47 32.108229 -103.736978 14,500.00 90.00 359.84 12,165.00 2,474.12 -2.35 403,720.73 725,984.19 32.108504 -103.736978 14,510.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,730.73 725,984.16 32.108531 -103.736977	14,200.00	90,00	359.84	12,165,00	2,174.13	-1.49	403,420	.73	725,985,04	32.107679	-103.736980
14,500.00 90.00 359.84 12,165.00 2,474.12 -2.35 403,720.73 725,984.19 32.108504 -103.736978 14,510.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,730.73 725,984.16 32.108531 -103.736977 Cross section @ 14510' MD, 0' FSL, 990' FWL 14,600.00 90.00 359.84 12,165.00 2,574.12 -2.63 403,820,73 725,983.90 32.108778 -103.736977 14,700.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920.73 725,983.62 32.109053 -103.736976 14,800.00 90.00 359.84 12,165.00 2,774.12 -3.20 404,020.73 725,983.33 32.109328 -103.736975 14,900.00 90.00 359.84 12,165.00 2,874.12 -3.49 404,120.73 725,983.05 32.109603 -103.736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220.73 725,982.76 32.109878 -103.736973 15,100.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320.72 725,982.48 32.110153 -103.736972 15,200.00 90.00 359.84 12,165.00 3,174.12 -4.34 404,420.72 725,982.19 32.110428 -103.736971			359.84	12,165.00	2,274.12	-1.78					
14,510.00 90.00 359.84 12,165.00 2,484.12 -2.38 403,730 725,984.16 32.108531 -103,736977 Cross section @ 14510' MD, 0' FSL, 990' FWL 14,600.00 90.00 359.84 12,165.00 2,574.12 -2.63 403,820,73 725,983.90 32.108778 -103,736977 14,700.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.62 32.109053 -103,736976 14,800.00 90.00 359.84 12,165.00 2,774.12 -3.20 404,020,73 725,983.33 32.109328 -103,736975 14,900.00 90.00 359.84 12,165.00 2,874.12 -3.49 404,120,73 725,983.05 32.109603 -103,736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220,73 725,982.76 32.109878 -103,736973 15,100.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.48 32.110153 -103,736972 15,200.00 90.00 359.84 12,165.00 3,174.12 -4.34 404,420,72 725,982.19 32.110428 -103,736971	14,400.00	90.00	359.84	12,165.00	2,374.12						
Cross section @ 14510' MD, 0' FSL, 990' FWL 14,600.00 90.00 359.84 12,165.00 2,574.12 -2.63 403,820,73 725,983.90 32.108778 -103.736977 14,700.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.62 32.109053 -103.736976 14,800.00 90.00 359.84 12,165.00 2,774.12 -3.20 404,020,73 725,983.33 32.109328 -103.736975 14,900.00 90.00 359.84 12,165.00 2,874.12 -3.49 404,120,73 725,983.05 32.109603 -103.736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220,73 725,982.76 32.109878 -103.736973 15,100.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.48 32.110153 -103.736972 15,200.00 90.00 359.84 12,165.00 3,174.12 -4.34 404,420,72 725,982.19 32.110428 -103.736971	14,500.00	90.00	359.84	12,165.00	2,474.12					32.108504	
14,600.00 90.00 359.84 12,165.00 2,574.12 -2.63 403,820,73 725,983.90 32.108778 -103.736977 14,700.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920,73 725,983.62 32.109053 -103.736976 14,800.00 90.00 359.84 12,165.00 2,774.12 -3.20 404,020,73 725,983.33 32.109328 -103.736975 14,900.00 90.00 359.84 12,165.00 2,874.12 -3.49 404,120,73 725,983.05 32.109603 -103.736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220,73 725,982.76 32.109878 -103.736973 15,100.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.48 32.110153 -103.736972 15,200.00 90.00 359.84 12,165.00 3,174.12 -4.34 404,420,72 725,982.19 32.110428 -103.736971	14,510.00	90.00	359,84	12,165.00	2,484.12	-2.38	403,730	.73	725,984.16	32,108531	-103,736977
14,700.00 90.00 359.84 12,165.00 2,674.12 -2.92 403,920.73 725,983.62 32.109053 -103.736976 14,800.00 90.00 359.84 12,165.00 2,774.12 -3.20 404,020.73 725,983.33 32.109328 -103.736975 14,900.00 90.00 359.84 12,165.00 2,874.12 -3.49 404,120.73 725,983.05 32.109603 -103.736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220.73 725,982.76 32.109878 -103.736973 15,100.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320.72 725,982.48 32.110153 -103.736972 15,200.00 90.00 359.84 12,165.00 3,174.12 -4.34 404,420.72 725,982.19 32.110428 -103.736971	Cross se	ction @ 14510)' MD, 0' FSL	, 990' FWL							
14,800.00 90.00 359.84 12,165.00 2,774.12 -3,20 404,020.73 725,983.33 32,109328 -103,736975 14,900.00 90.00 359.84 12,165.00 2,874.12 -3,49 404,120.73 725,983.05 32,109603 -103,736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3,77 404,220.73 725,982.76 32,109878 -103,736973 15,100.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320.72 725,982.48 32,110153 -103,736972 15,200.00 90.00 359.84 12,165.00 3,174.12 -4.34 404,420.72 725,982.19 32,110428 -103,736971	l .				2,574.12	-2.63	403,820	.73	725,983.90	32,108778	-103.736977
14,800.00 90.00 359.84 12,165.00 2,774.12 -3.20 404,020.73 725,983.33 32.109328 -103.736975 14,900.00 90.00 359.84 12,165.00 2,874.12 -3.49 404,120.73 725,983.05 32.109603 -103.736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220.73 725,982.76 32.109878 -103.736973 15,100.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320.72 725,982.48 32.110153 -103.736972 15,200.00 90.00 359.84 12,165.00 3,174.12 -4.34 404,420.72 725,982.19 32.110428 -103.736971	14,700.00	90.00	359.84	12,165.00	2,674.12	-2.92	403,920	.73	725,983.62	32,109053	-103.736976
14,900.00 90.00 359.84 12,165.00 2,874.12 -3.49 404,120,73 725,983.05 32.109603 -103.736974 15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220,73 725,982.76 32.109878 -103.736973 15,100.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320,72 725,982.48 32.110153 -103.736972 15,200.00 90.00 359.84 12,165.00 3,174.12 -4.34 404,420,72 725,982.19 32.110428 -103.736971	14,800.00	90.00	359,84	12,165.00	2,774.12	-3,20	404,020	.73	725,983.33	32,109328	-103,736975
15,000.00 90.00 359.84 12,165.00 2,974.12 -3.77 404,220.73 725,982.76 32.109878 -103.736973 15,100.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320.72 725,982.48 32.110153 -103.736972 15,200.00 90.00 359.84 12,165.00 3,174.12 -4.34 404,420.72 725,982.19 32.110428 -103.736971	·						404,120	.73	725,983.05	32,109603	-103,736974
15,100.00 90.00 359.84 12,165.00 3,074.12 -4.06 404,320.72 725,982.48 32.110153 -103.736972 15,200.00 90.00 359.84 12,165.00 3,174.12 -4.34 404,420.72 725,982.19 32.110428 -103.736971				•						32.109878	-103.736973
15,200.00 90.00 359.84 12,165.00 3,174.12 -4.34 404,420,72 725,982.19 32,110428 -103,736971										32.110153	-103.736972
										32,110428	-103.736971
	15,300.00	90.00	359,84	12,165.00	3,274.12	-4.63				32,110703	-103,736971

Database: Сотралу: EDM r5000.141_Prod US WCDSC Permian NM

Project: Site:

Eddy County (NAD 83 NM Eastern)

Sec 25-T25S-R31E

Weil: Wellbore: Big Sinks Draw 25-24 Fed Com 731H

Wellbore #1 Design: Permit Plan 1 Local Co-ordinate Reference:

MD Reference:

North Reference: Survey Calculation Method: Well Big Sinks Draw 25-24 Fed Com 731H

RKB @ 3362,50ft RKB @ 3362.50ft

Grid

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			Υ		3				
Measured			Vertical			Мар	Мар	4	
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft),	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
15,400,00	90.00	359.84	12,165.00	3,374.12	-4.91	404,620	.72 725,981.63	32,110977	-103,73
15,500.00	90.00	359.84	12,165.00	3,474.12	- 5.20	404,720	.72 725,981.34	32.111252	-103.73
15,600.00	90.00	359.84	12,165.00	3,574.12	-5.48	404,820	725,981.06	32.111527	-103.73
15,700.00	90.00	359.84	12,165.00	3,674.12	-5.77	404,920		32.111802	-103.73
15,800,00	90,00	359.84	12,165.00	3,774.12	-6.05	405,020	72 725,980.49	32,112077	-103,73
15,900.00	90.00	359.84	12,165.00	3,874.12	-6.33	405,120	72 725,980.20	32,112352	-103.73
16,000.00	90.00	359.84	12,165.00	3,974.12	-6.62	405,220	72 725,979.92	32.112627	-103.73
16,100.00	90.00	359,84	12,165.00	4,074.12	-6.90	405,320	72 725,979.63	32.112902	-103.73
16,200,00	90.00	359,84	12,165.00	4,174.12	-7.19	405,420	72 725,979.35	32,113177	-103,73
16,300.00	90.00	359.84	12,165.00	4,274.12	-7.47	405,520	72 725,979.06	32,113451	-103.73
16,400.00	90.00	359.84	12,165.00	4,374.12	-7.76	405,620	72 725,978.78	32.113726	-103.73
16,500.00	90.00	359.84	12,165.00	4,474.12	-8.04	405,720	72 725,978.49	32.114001	-103.73
16,600.00	90.00	359.84	12,165.00	4,574.12	-8.33	405,820.	72 725,978.21	32,114276	-103,73
16,700.00	90.00	359.84	12,165.00	4,674.12	-8 .61	405,920.	71 725,977.92	32,114551	-103.73
16,800.00	90.00	359.84	12,165.00	4,774.11	-8.90	406,020	71 725,977.64	32.114826	-103.73
16,900.00	90.00	359.84	12,165.00	4,874.11	-9.18	406,120	71 725,977.35	32.115101	-103,73
17,000.00	90.00	359,84	12,165.00	4,974.11	-9.47	406,220.	71 725,977,07	32,115376	-103,73
17,100.00	90.00	359.84	12,165.00	5,074.11	-9.75	406,320	71 725,976.78	32.115650	-103.73
17,200.00	90.00	359.84	12,165.00	5,174.11	-10.04	406,420	71 725,976.50	32,115925	-103.73
17,300.00	90.00	359.84	12,165.00	5,274.11	-10.32	406,520	71 725,976.21	32.116200	-103.73
17,400.00	90.00	359.84	12,165.00	5,374.11	-10,61	406,620	71 725,975.93	32,116475	-103.73
17,500.00	90,00	359.84	12,165.00	5,474.11	-10.89	406,720,	71 725,975,64	32,116750	-103.73
17,600.00	90.00	359.84	12,165.00	5,574.11	-11.18	406,820	71 725,975.36	32.117025	-103.73
17,700.00	90.00	359.84	12,165.00	5,674.11	-11,46	406,920	71 725,975.08	32.117300	-103.73
17,800.00	90.00	359.84	12,165.00	5,774,11	-11.75	407,020	71 725,974.79	32.117575	-103,73
17,900.00	90.00	359.84	12,165.00	5,874.11	-12.03	407,120	71 725,974.51	32.117850	-103,730
18,000.00	90,00	359.84	12,165.00	5,974.11	-12.32	407,220.	71 725,974.22	32.118124	-103.730
18,100.00	90.00	359.84	12,165.00	6,074.11	-12.60	407,320	71 725,973.94	32.118399	-103.736
18,200.00	90.00	359.84	12,165.00	6,174.11	-12.89	407,420	71 725,973.65	32.118674	-103,73
18,300.00	90.00	359.84	12,165.00	6,274.11	-13,17	407,520.	71 725,973,37	32,118949	-103,73
18,400.00	90.00	359.84	12,165.00	6,374.11	-13,45	407,620.	70 725,973.08	32,119224	-103.73
18,500.00	90.00	359.84	12,165.00	6,474.11	-13.74	407,720.		32.119499	-103.736
18,600.00	90,00	359.84	12,165.00	6,574,11	-14.02	407,820.	70 725,972.51	32,119774	-103,736
18,700,00	90,00	359.84	12,165.00	6,674,11	-14.31	407,920.	70 725,972.23	32.120049	-103,736
18,800.00	90.00	359.84	12,165.00	6,774.11	-14.59	408,020	70 725,971.94	32.120323	-103,736
18,900.00	90.00	359.84	12,165.00	6,874.11	-14.88	408,120	70 725,971.66	32,120598	-103.73
19,000.00	90.00	359.84	12,165.00	6,974.11	-15.16	408,220		32,120873	-103.736
19,100.00	90,00	359.84	12,165.00	7,074.11	-15.45	408,320	70 725,971.09	32.121148	-103,736
19,200.00	90.00	359.84	12,165.00	7,174.11	-15.73	408,420		32.121423	-103,736
19,300.00	90.00	359.84	12,165.00	7,274.10	-16.02	408,520		32.121698	-103.736
19,400.00	90.00	359.84	12,165.00	7,374.10	-16.30	408,620	·	32.121973	-103,736
19,462,32	90.00	359,84	12,165,00	7,436.42	-16.48	408,683		32,122144	-103,736
	TP @ 19462'		·	•		, [•		
19,462.33	90.00	359.84	12,165.00	7,436,44	-16.48	408,683	03 725,970.06	32.122144	-103.736

Design Targets	•					
Target Name - hit/miss target Dip Angle - Shape (*)	Dip Dir. TVD	+N/-S +E/-W	Nörthing (üsft)	Eåsting (vsft)	Latitude	Longitude
PBHL - Big Sinks Draw : 0.00 - plan misses target center by 743 - Point	0.00 0.00 6.45ft at 0.00ft MD (0.00		6.48 408,683.0	03 725,970,06	32.122144	-103.736934

Database: Company: Project:

EDM r5000.141_Prod US WCDSC Permian NM

Eddy County (NAD 83 NM Eastern)

Sec 25-T25S-R31E

Site: Well: Wellbore: Design:

Big Sinks Draw 25-24 Fed Com 731H

Wellbore #1 Permit Plan 1 Local Co-ordinate Reference:

TVD Reference:

RKB @ 3362.50ft
RKB @ 3362.50ft
RKB @ 3362.50ft
Grid MD Reference:

North Reference: Survey Calculation Method:

Well Big Sinks Draw 25-24 Fed Com 731H

Minimum Curvature

Plan Annotations

Measured Depth (ft)	Vertical Depth	Local Coon	+E/-W	
(11)	5. fra	(nt)	(ft)	Comment
11,592.82	11,592.04	-106.00	5.00	KOP @ 1/1593' MD, 2590' FNL, 990' FWL
11,833.96	11,826.12	-56,00	4.86	FTP @ 11834 MD, 2539 FNL, 990 FWL
14,510.00	12,165.00	2,484.12	-2.38	Cross section @ 14510' MD, 0' FSL, 990' FWL
19,462.32	12,165.00	7,436.42	-16.48	PBHL & LTP @ 19462' MD, 330' FNL, 990' FWL

devon

