

30-015-38483

SURFACE USE PLAN

Devon Energy Production Company, LP

Helios 6 Fed Com 2H

Surface Location: 340' FSL & 1955' FEL, Unit O, Sec 6 T19S R31E, Eddy, NM

Bottom hole Location: 340' FNL & 1660' FEL, Unit B, Sec 6 T19S R31E, Eddy, NM

1. Existing Roads:

- a. The well site and elevation plat for the proposed well are reflected on the well site layout; Form C-102. The well was staked by Basin Surveys.
- b. All roads into the location are depicted on the surveyor plats.
- c. Directions to Location: From CR# 222 (Shugart Rd) and CR #248 (Lusk Plant Road), go north on 222 0.5 miles turn left on caliche road and go southwest 2.0 miles the existing Hackberry 6 Fed 1 battery at the SW pad corner follow proposed road survey SW 216' then south 958' to the north edge of pad for this location.
- d. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.
- e. If existing road is shared with other operators, Devon will share in its cost to maintain the road as required by the BLM.

2. New or Reconstructed Access Roads:

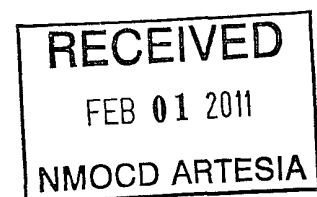
- a. The well site layout, Form C-102 shows approximately 1274' of new access road will be constructed as follows:
- b. The maximum width of the road will be 14'. It will be crowned and made of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 2%.
- d. No cattle guards, grates or fence cuts will be required. No turnouts are planned.

3. Location of Existing Wells:

1 Mile Radius Plat shows all existing and proposed wells within a one-mile radius of the proposed location. See attached plat.

4. Location of Existing and/or Proposed Production Facilities:

- a. In the event the well is found productive, the Helios 6 Fed Com 1H tank battery (would be utilized and the necessary production equipment will be installed at the well site.
- b. If necessary, the well will be operated by means of an electric prime mover. Electric power poles will be set along side of the access road.
- c. If the well is productive, rehabilitation plans are as follows:
 - i. A closed loop system will be utilized.
 - ii. The original topsoil from the well site will be returned to the location. The drill site will then be contoured as close as possible to the original state.



4. Location and Types of Water Supply:

This location will be drilled using a combination of water mud systems (outlined in the Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads shown in the C-102. On occasion, water will be obtained from a pre-existing water well, running a pump directly to the drill rig. In these cases where a poly pipeline is used to transport water for drilling purposes, proper authorizations will be secured. If a poly pipeline is used, the size, distance, and map showing route will be provided to the BLM via sundry notice.

5. Construction Materials:

The caliche utilized for the drilling pad and proposed access road will be from minerals that are located onsite or will be used onsite. If minerals are not available onsite, then an established mineral pit will be used to build the location and stem road.

6. Methods of Handling Waste Material:

- a. Drill cuttings will be disposed of in a closed loop system.
- b. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier, including broken sacks, will pick up salts remaining after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Remaining drilling fluids will be sent to a closed loop system. Water produced during completion will be put into a closed loop system. Oil and condensate produced will be put into a storage tank and sold.
- f. Disposal of fluids to be transported by the following companies:
 - i. American Production Service Inc, Odessa TX
 - ii. Gandy Corporation, Lovington NM
 - iii. I & W Inc, Loco Hill NM
 - iv. Jims Water Service of Co Inc, Denver CO

7. Ancillary Facilities: No campsite or other facilities will be constructed as a result of this well.

8. Well Site Layout

- a. The rig layout diagram shows the proposed well site layout with dimensions of the pad layout.
- b. This exhibit indicated proposed location of reserve and sump pits and living facilities.
- c. A closed loop system will be utilized.
- d. If a pit or closed loop system will be utilized, Devon will comply with the NMOCD requirements 19.15.17 and submit form C-144 CLEZ to the appropriate NMOCD District Office. An unapproved copy is provided within the APD.
- e. Topsoil Stockpiling:
 - i. Standard practice is topsoil will be pushed to the high side of location to prevent water from running across location to control erosion. If a cut out is done and there are two or three high sides, we will use those there.

9. Plans for Surface Reclamation Include Both Final & Interim:

- a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and used for other drilling locations, repair existing roads, repair existing locations, etc. The road will be reclaimed as directed by the BLM. The original top soil will again be returned to the pad and contoured, as close as possible, to the original topography. We will use a closed loop system.
- b. The location and road will be rehabilitated as recommended by the BLM.
- c. If the well is deemed commercially productive, caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography.
- d. All disturbed areas not needed for active support of production operations will undergo interim reclamation. The portions of the cleared well site not needed for operational and safety purposes will be recontoured to a final or intermediate contour that blends with the surrounding topography as much as possible. Topsoil will be respread over areas not needed for all-weather operations.

10. Surface Ownership

- a. The surface is owned by the US Government and is administered by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas.
- b. The proposed road routes and the surface location will be restored as directed by the BLM.

11. Other Information:

- a. The area surrounding the well site is grassland. The topsoil is very sandy in nature. The vegetation is moderately sparse with native prairie grass, sagebush, yucca and miscellaneous weeds. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within 2 miles of location.
- d. A Cultural Resources Examination will be completed by Southern New Mexico Archaeological Services, Inc. and forwarded to the BLM office in Carlsbad, New Mexico.

13. Bond Coverage:

Bond Coverage is Nationwide; Bond # is CO-1104

Operators Representative:

The Devon Energy Production Company, L.P. representatives responsible for ensuring compliance of the surface use plan are listed below.

Steven Jones
Operations Engineer Advisor

Don Mayberry
Superintendent

Devon Energy Production Company, L.P.
20 North Broadway, Suite 1500
Oklahoma City, OK 73102-8260

Devon Energy Production Company, L.P.
Post Office Box 250
Artesia, NM 88211-0250

(405) 552-7994 (office)
(405) 596-8041 (cell)

(505) 748-0164 (office)
(505) 748-5235 (cell)

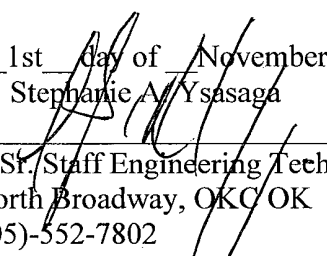
Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or Devon Energy Production Company, L.P. am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

I hereby also certify that I, or Devon Energy Production Company, L.P. have made a good faith effort to provide the surface owner with a copy of the Surface Use Plan of Operations and any Conditions of Approval that are attached to the APD.

Executed this 1st day of November, 2010.

Printed Name: Stephanie A. Ysasaga

Signed Name: 

Position Title: Sr. Staff Engineering Technician

Address: 20 North Broadway, OKC OK 73102

Telephone: (405)-552-7802

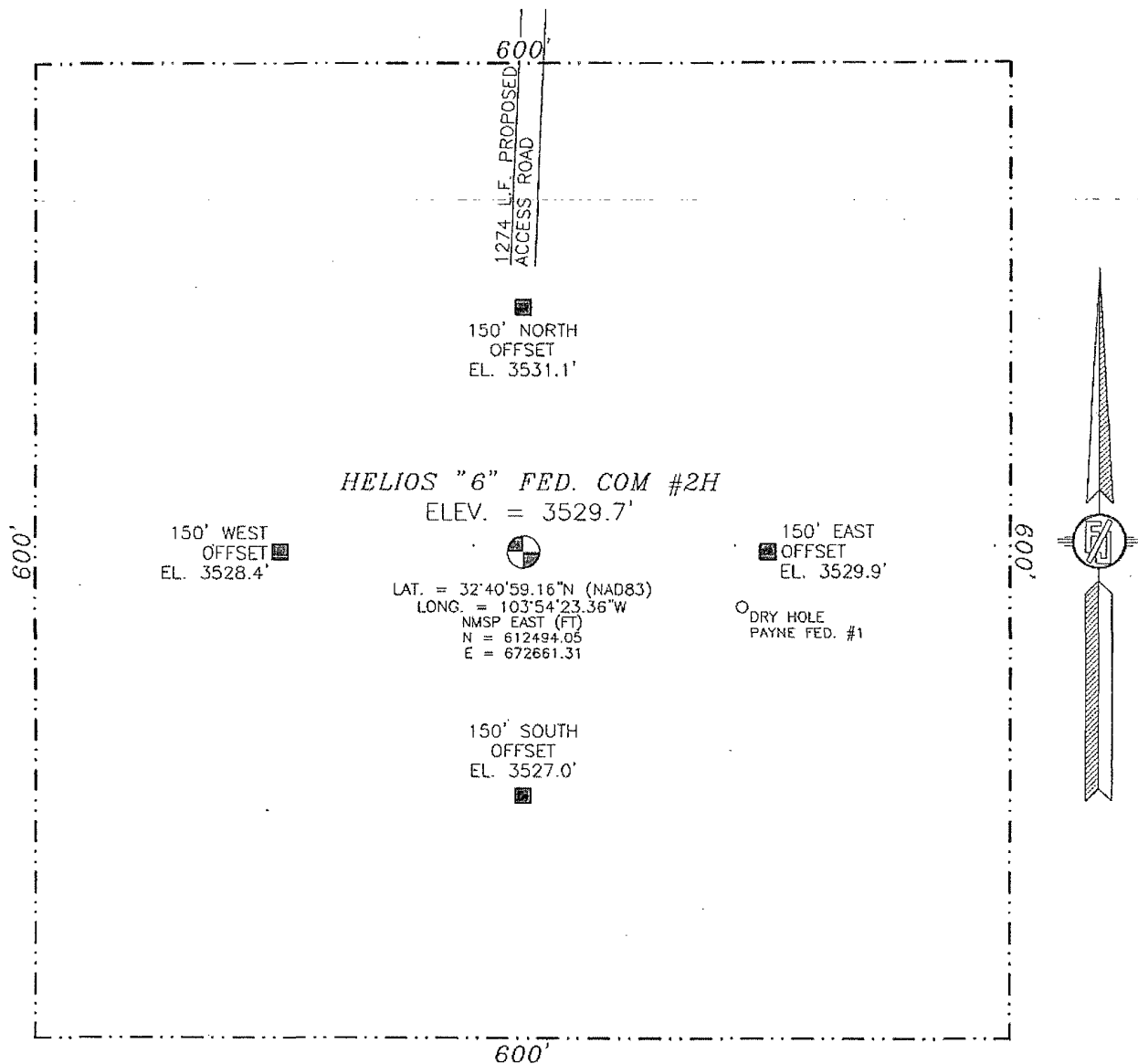
Field Representative (if not above signatory): Don Mayberry (see above)

Address (if different from above):

Telephone (if different from above):

E-mail (optional):

SECTION 6, TOWNSHIP 19 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



SEC. 6
SEC. 7

010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM CR. #222 (SHUGART RD.) AND CR. #248 (LUSK PLANT RD.)
GO NORTH ON 222 0.5 MILES TURN LEFT ON CALICHE ROAD AND GO
SOUTHWEST 2.0 MILES THE EXISTING HACKBERRY "6" FED. #1
BATTERY AT THE SW PAD CORNER FOLLOW PROPOSED ROAD SURVEY
SE. 216' THEN SOUTH 958' TO THE NORTH EDGE OF PAD FOR THIS
LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.

HELIOS "6" FED. COM #2H

LOCATED 340 FT. FROM THE SOUTH LINE
AND 1955 FT. FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 19 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

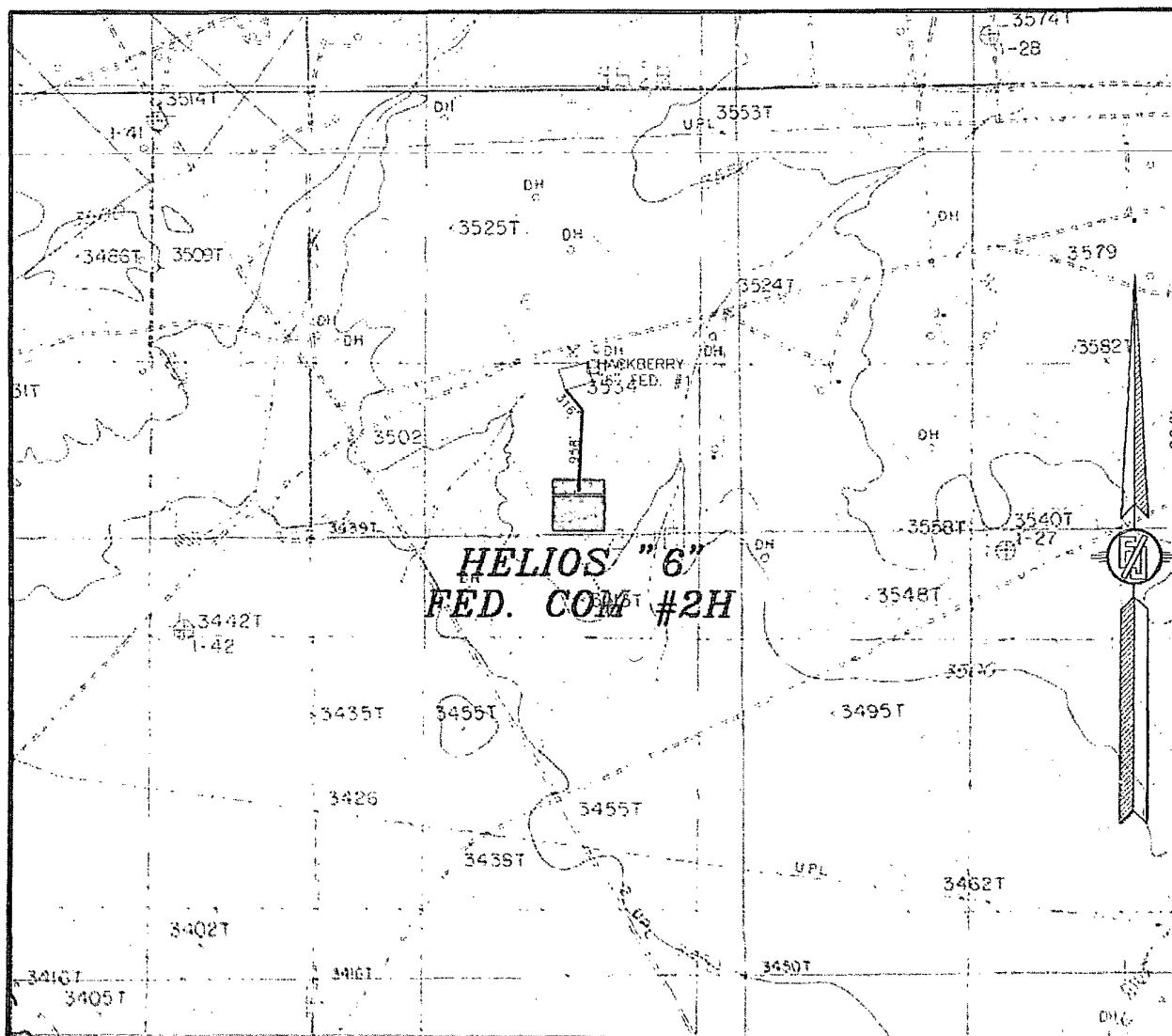
OCTOBER 20, 2010

SURVEY NO. 285

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(505) 887-5830

SECTION 6, TOWNSHIP 19 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

LOCATION VERIFICATION MAP



CONTOUR INTERVAL:
HACKBERRY LAKE

NOT TO SCALE

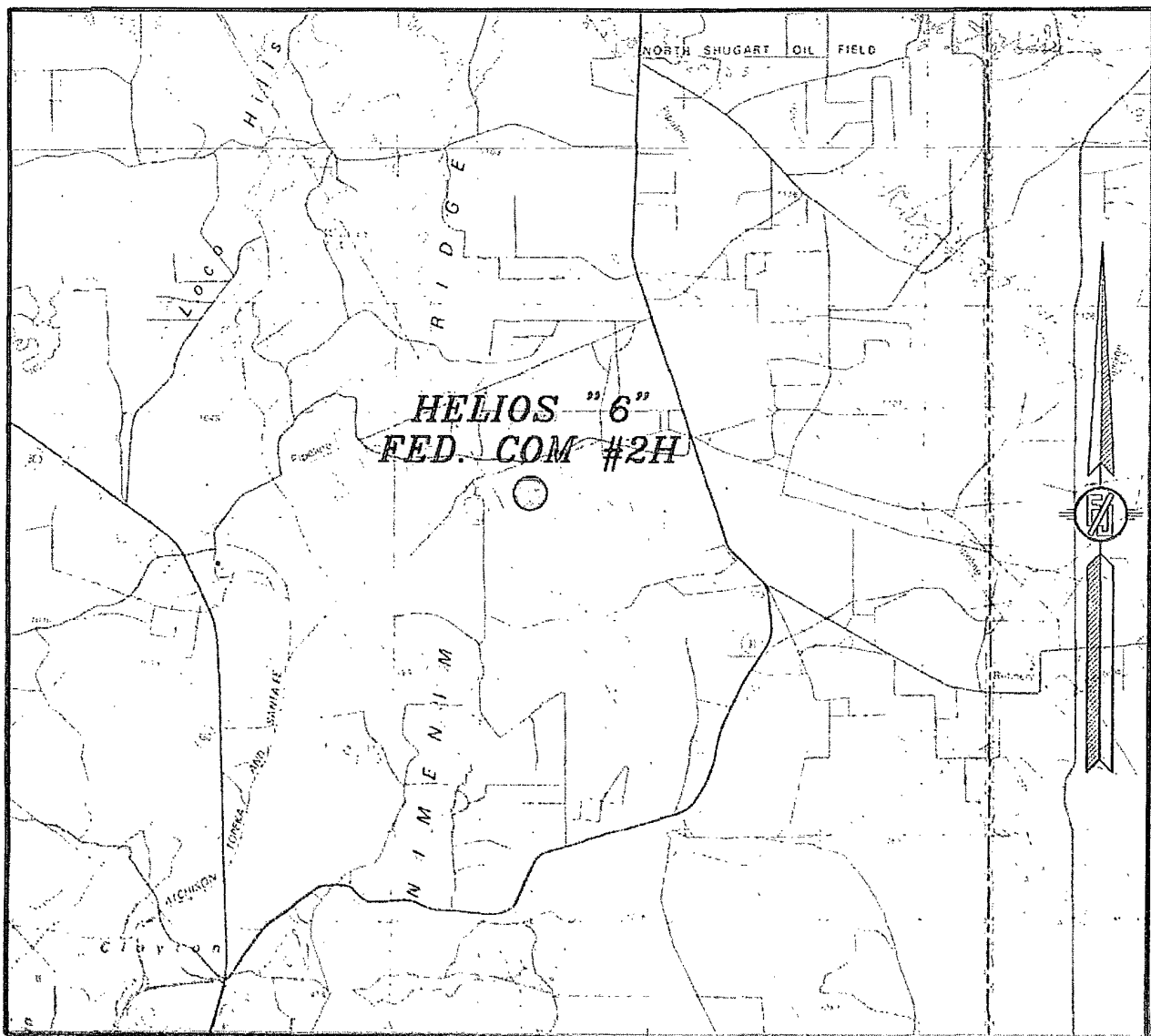
DEVON ENERGY PRODUCTION COMPANY, L.P.
HELIOS "6" FED. COM #2H
LOCATED 340 FT. FROM THE SOUTH LINE
AND 1955 FT. FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 19 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 20, 2010

SURVEY NO. 285

MADRON SURVEYING, INC. 301 SOUTH STATE CARLSBAD, NEW MEXICO
(761) 237-5832

SECTION 6, TOWNSHIP 19 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



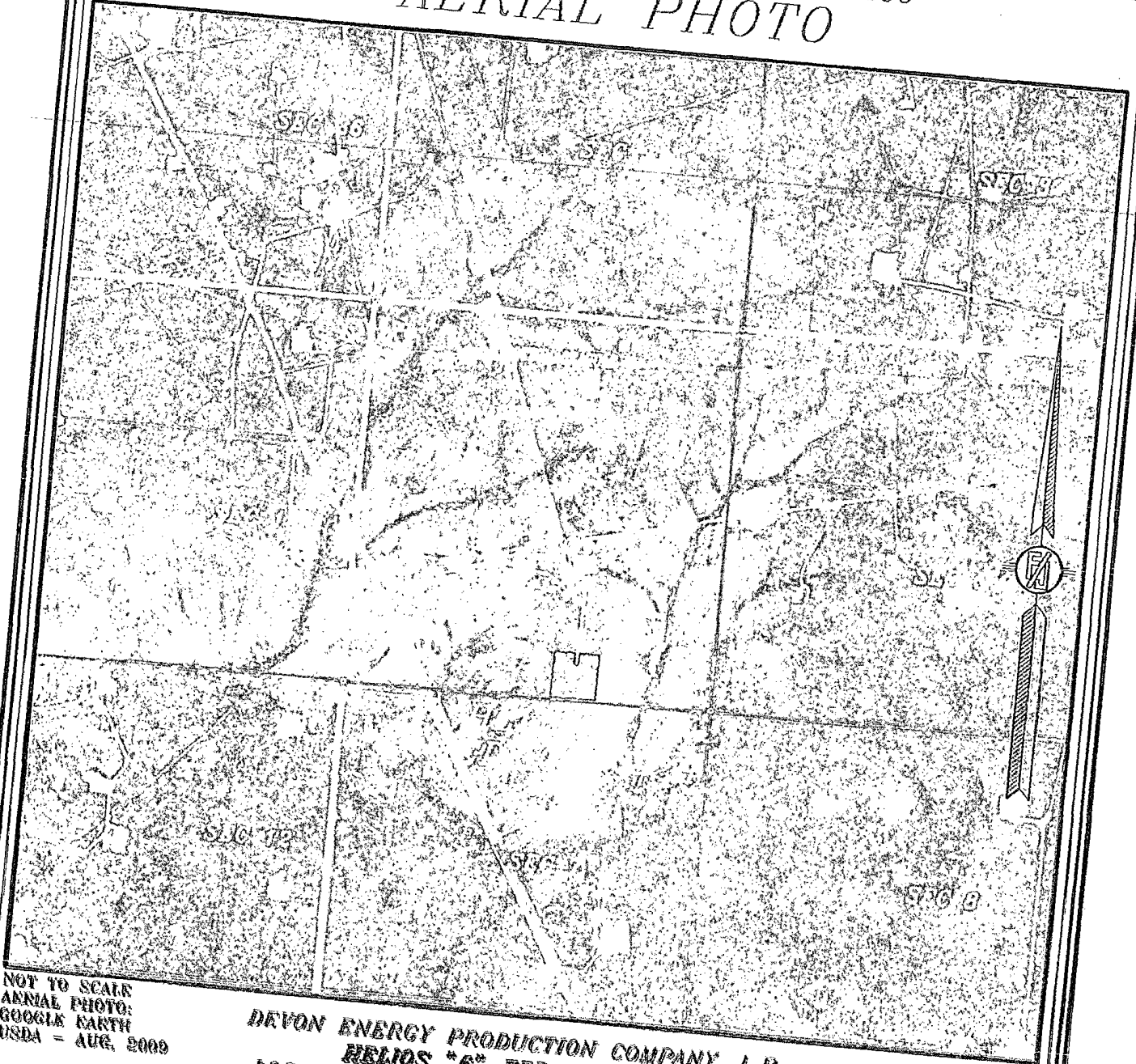
DEVON ENERGY PRODUCTION COMPANY, L.P.
HELIOS "6" FED. COM #2H
LOCATED 340 FT. FROM THE SOUTH LINE
AND 1955 FT. FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 19 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 20, 2010

SURVEY NO. 285

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 587-5930

SECTION 6, TOWNSHIP 19 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
USDA = AUG. 2009

DEVON ENERGY PRODUCTION COMPANY, L.P.
HELIOS #6" FED. COM #8H
LOCATED 340 FT. FROM THE SOUTH LINE
AND 1955 FT. FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 19 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SURVEY NO. 285

OCTOBER 20, 2010

MADRON SURVEYING, INC. 301 SOUTH DAVIS
(505) 837-1530 CARLSBAD, NEW MEXICO

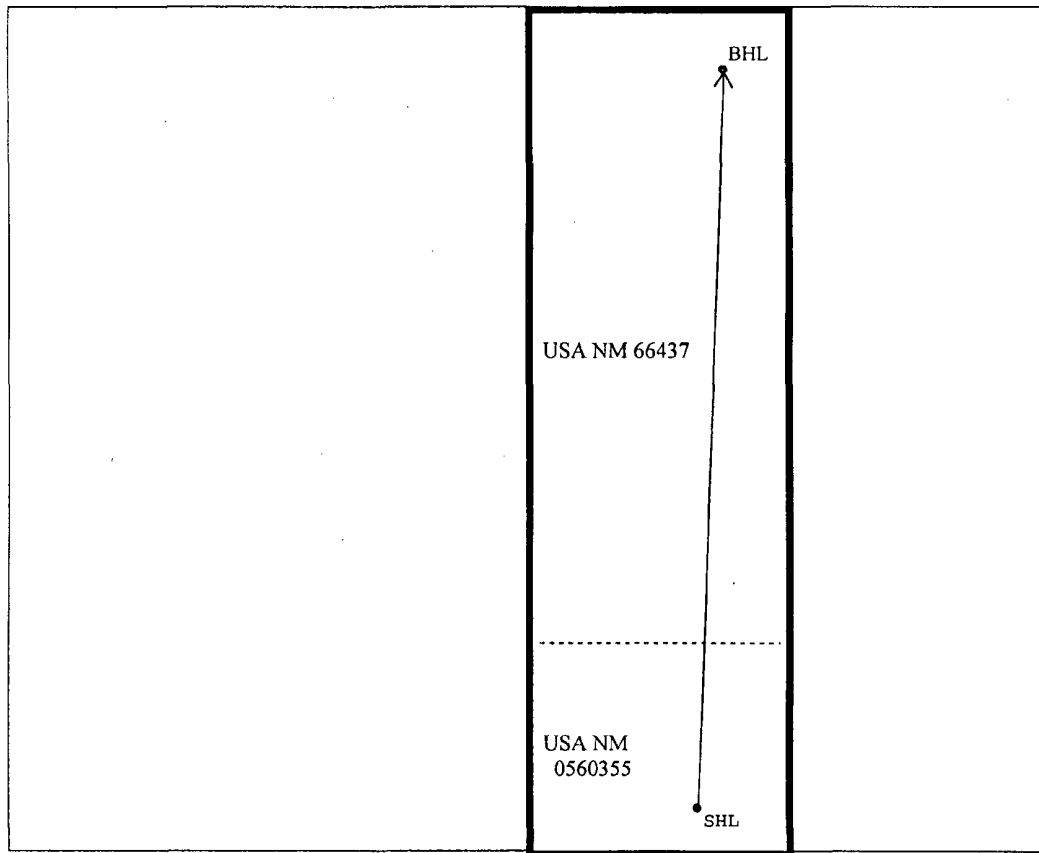
SECTION LAND PLAT

_____ Eddy County _____ State of New Mexico _____
Section . 6 . Township . 19 S . Range . 31 E .

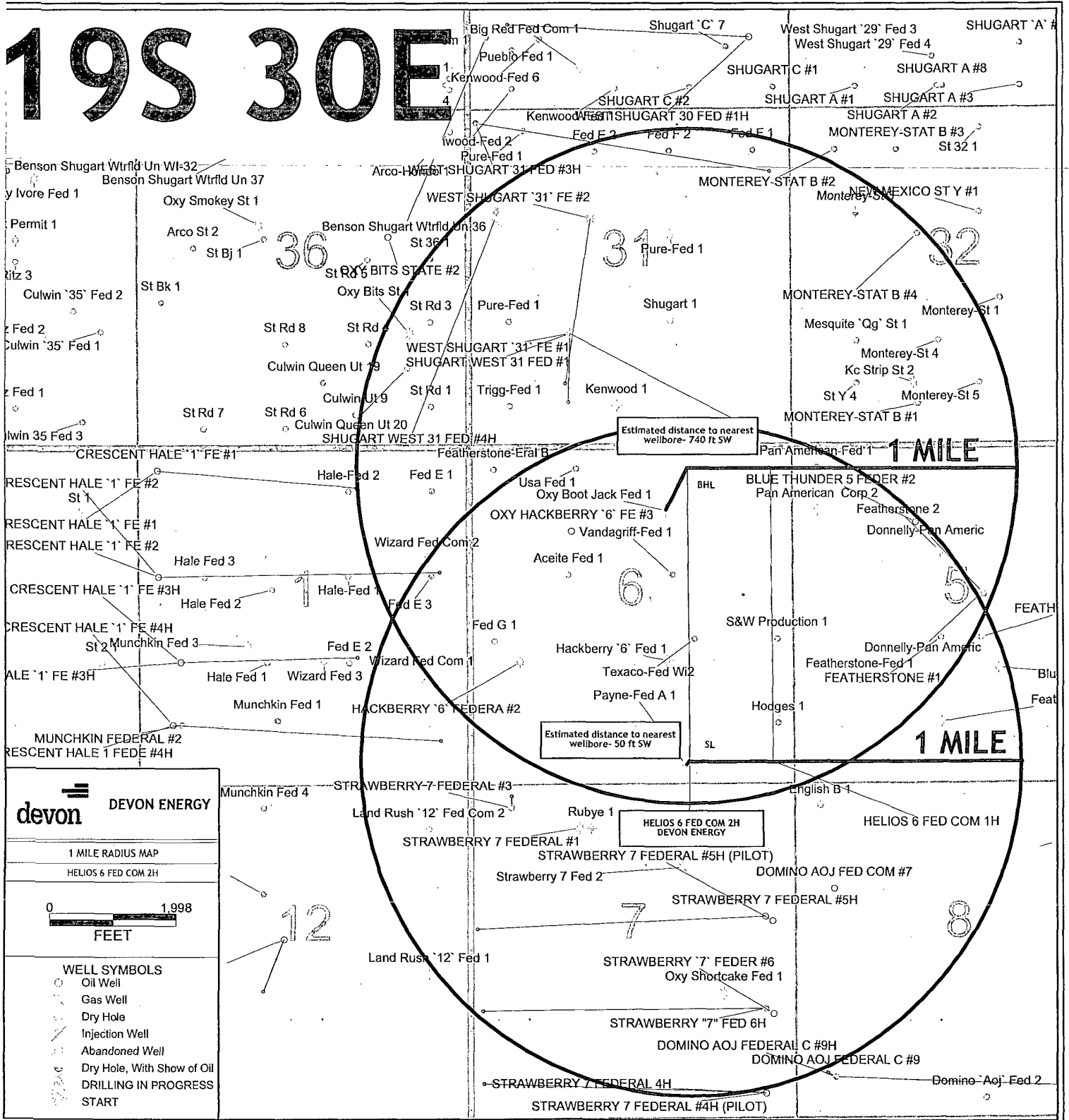
Helios 6 Fed Com 2 H

SHL: 340' FSL, 1955' FEL

BHL: 340' FNL, 1660' FEL



19S 30E





Proposal No: 663350465A

Devon Energy Corp
Helios 6 Fed 2H

Eddy County, New Mexico
October 28, 2010

Well Proposal

Prepared for:

Patrick Brown
Drilling Engineer
Oklahoma City, Oklahoma
Bus Phone: (405) 228-8511

Prepared by:

DAVID TODD
Region Engineer
Oklahoma City, Oklahoma
Bus Phone: (405) 401-9706



Service Point:

Artesia
Bus Phone: (505) 746-3140
Fax: (505) 746-2293

Service Representatives:

Larry Johnson
Senior Sales Rep
Artesia, New Mexico

Operator Name: Devon Energy Corp
Well Name: Helios 6 Fed 2H
Job Description: Surface Casing
Date: October 28, 2010



Proposal No: 663350465A

JOB AT A GLANCE

Depth (TVD)	590 ft
Depth (MD)	590 ft
Hole Size	17.5 in
Casing Size/Weight	13 3/8 in, 48 lbs/ft
Pump Via	13 3/8" O.D. (12.715" I.D) 48 #
Total Mix Water Required	4,320 gals
Spacer	
Fresh Water	20 bbls
Density	8.3 ppg
Lead Slurry	
Class C + Additives	298 sacks
Density	13.5 ppg
Yield	1.75 cf/sack
Tail Slurry	
Class C	250 sacks
Density	14.8 ppg
Yield	1.35 cf/sack
Displacement	
Mud	86 bbls
Density	9.0 ppg

Operator Name: Devon Energy Corp
 Well Name: Helios 6 Fed 2H
 Job Description: Surface Casing
 Date: October 28, 2010



Proposal No: 663350465A

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
17.500 HOLE	590	590

SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
13.375	12.715	48	590	590

Float Collar set @ 550 ft
 Mud Density 9.00 ppg
 Est. Static Temp. 80 ° F
 Est. Circ. Temp. 80 ° F

VOLUME CALCULATIONS

373 ft	x	0.6946 cf/ft	with	100 % excess	=	518.6 cf
217 ft	x	0.6946 cf/ft	with	100 % excess	=	301.1 cf
40 ft	x	0.8818 cf/ft	with	0 % excess	=	35.3 cf (inside pipe)
TOTAL SLURRY VOLUME					=	854.9 cf
					=	152 bbls

Operator Name: Devon Energy Corp
 Well Name: Helios 6 Fed 2H
 Job Description: Surface Casing
 Date: October 28, 2010



Proposal No: 663350465A

FLUID SPECIFICATIONS

Spacer 20.0 bbls Fresh Water @ 8.34 ppg

FLUID	VOLUME CU-FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	519	1.75	= 298 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water
Tail Slurry	336	1.35	= 250 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water
Displacement			86.4 bbls Mud @ 9 ppg

CEMENT PROPERTIES

	SLURRY NO.1	SLURRY NO.2
Slurry Weight (ppg)	13.50	14.80
Slurry Yield (cf/sack)	1.75	1.35
Amount of Mix Water (gps)	9.17	6.35
Estimated Pumping Time - 70 BC (HH:MM)	3:30	2:30

COMPRESSIVE STRENGTH

8 hrs @ 80 ° F (psi)		500
12 hrs @ 80 ° F (psi)		865
15 hrs @ 80 ° F (psi)	400	
24 hrs @ 80 ° F (psi)	500	
72 hrs @ 80 ° F (psi)	700	1475
		2700

Operator Name: Devon Energy Corp
Well Name: Helios 6 Fed 2H
Job Description: Intermediate Casing
Date: October 28, 2010



Proposal No: 663350465A

JOB AT A GLANCE

Depth (TVD)	3,150 ft
Depth (MD)	3,150 ft
Hole Size	12.25 in
Casing Size/Weight	9 5/8 in, 40 lbs/ft
Pump Via	9 5/8" O.D. (8.835" I.D) 40 #
Total Mix Water Required	9,656 gals
Spacer	
Fresh Water	20 bbls
Density	8.3 ppg
Lead Slurry	
35:65:4 Poz:Class C	735 sacks
Density	12.8 ppg
Yield	1.96 cf/sack
Tail Slurry	
Class C	300 sacks
Density	14.8 ppg
Yield	1.34 cf/sack
Displacement	
Mud	236 bbls
Density	10.0 ppg

Operator Name: Devon Energy Corp
 Well Name: Helios 6 Fed 2H
 Job Description: Intermediate Casing
 Date: October 28, 2010



Proposal No: 663350465A

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
12.715 CASING	590	590
12.250 HOLE	3,150	3,150

SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
9.625	8.835	40	3,150	3,150

Float Collar set @ 3,110 ft
 Mud Density 10.00 ppg
 Est. Static Temp. 105 ° F
 Est. Circ. Temp. 94 ° F

VOLUME CALCULATIONS

590 ft	x	0.3765 cf/ft	with	0 % excess	=	222.1 cf
1,947 ft	x	0.3132 cf/ft	with	100 % excess	=	1219.8 cf
613 ft	x	0.3132 cf/ft	with	100 % excess	=	383.8 cf
40 ft	x	0.4257 cf/ft	with	0 % excess	=	17.0 cf (inside pipe)
TOTAL SLURRY VOLUME					=	1842.7 cf
					=	328 bbls

Operator Name: Devon Energy Corp
Well Name: Helios 6 Fed 2H
Job Description: Intermediate Casing
Date: October 28, 2010



Proposal No: 663350465A

FLUID SPECIFICATIONS

Spacer 20.0 bbls Fresh Water @ 8.34 ppg

<u>FLUID</u>	<u>VOLUME CU-FT</u>	<u>VOLUME FACTOR</u>	<u>AMOUNT AND TYPE OF CEMENT</u>
Lead Slurry	1442	1.96	= 735 sacks (35.65) Poz (Fly Ash) Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 0.8% bwoc Sodium Metasilicate + 5% bwoc MPA-5 + 101.1% Fresh Water
Tail Slurry	401	1.34	= 300 sacks Class C Cement + 1% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.2% Fresh Water

Displacement 235.8 bbls Mud @ 10 ppg

CEMENT PROPERTIES

	SLURRY NO.1	SLURRY NO.2
Slurry Weight (ppg)	12.80	14.80
Slurry Yield (cf/sack)	1.96	1.34
Amount of Mix Water (gps)	10.55	6.34
Estimated Pumping Time - 70 BC (HH:MM)	3:30	2:30

COMPRESSIVE STRENGTH

12 hrs @ 95 ° F (psi)	
15 hrs @ 95 ° F (psi)	340
24 hrs @ 95 ° F (psi)	500
8 hrs @ 100 ° F (psi)	800
12 hrs @ 100 ° F (psi)	500
24 hrs @ 100 ° F (psi)	850
72 hrs @ 100 ° F (psi)	2250
	3000

ACTUAL CEMENT VOLUMES MAY VARY BASED ON CALIPER.

Operator Name: Devon Energy Corp
Well Name: Helios 6 Fed 2H
Job Description: Long String
Date: October 28, 2010



Proposal No: 663350465A

JOB AT A GLANCE

Depth (TVD) 8,800 ft

Depth (MD) 13,160 ft

Hole Size 8.75 in

Casing Size/Weight 5 1/2 in, 17 lbs/ft

Pump Via 5 1/2" O.D. (4.892" I.D.) 17 #

Total Mix Water Required 22,201 gals

Stage No: 1 Float Collar set @ 13,120 ft

Spacer

Fresh Water 30 bbls

Density 8.3 ppg

Spacer

Mud Clean II 1,500 gals

Density 8.5 ppg

Spacer

Fresh Water 10 bbls

Density 8.3 ppg

Lead Slurry

35:65:6 Poz:Class H 908 sacks

Density 12.5 ppg

Yield 2.00 cf/sack

Tail Slurry

50:50 Poz:Class H 1,303 sacks

Density 14.2 ppg

Yield 1.28 cf/sack

Displacement

Displacement Fluid 305 bbls

Operator Name: Devon Energy Corp
Well Name: Helios 6 Fed 2H
Job Description: Long String
Date: October 28, 2010



Proposal No: 663350465A

JOB AT A GLANCE (Continued)

Stage No: 2 Stage Collar set @ 4,500 ft

Spacer

Fresh Water 20 bbls
Density 8.3 ppg

Lead Slurry

Class C + Additives 210 sacks
Density 11.4 ppg
Yield 2.89 cf/sack

Tail Slurry

60:40 Poz:Class C (MPA) 150 sacks
Density 13.8 ppg
Yield 1.38 cf/sack

Displacement

Displacement Fluid 105 bbls

Operator Name: Devon Energy Corp
 Well Name: Helios 6 Fed 2H
 Job Description: Long String
 Date: October 28, 2010



Proposal No: 663350465A

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
8.835 CASING	3,150	3,150
8.750 HOLE	13,160	8,800

SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
5.500	4.892	17	13,160	8,800

STAGE: 1 Float Collar set @ 13,120 ft
 Mud Density 9.50 ppg
 Est. Static Temp. 150 ° F
 Est. Circ. Temp. 150 ° F

VOLUME CALCULATIONS

3,600 ft x 0.2526 cf/ft with 100 % excess = 1818.7 cf
 5,060 ft x 0.2526 cf/ft with 30 % excess = 1661.6 cf
 40 ft x 0.1305 cf/ft with 0 % excess = 5.2 cf (inside pipe)
 TOTAL SLURRY VOLUME = 3485.5 cf
 = 621 bbls

STAGE: 2 Stage Collar set @ 4,500 ft
 Mud Density 9.50 ppg
 Est. Static Temp. 116 ° F
 Est. Circ. Temp. 101 ° F

VOLUME CALCULATIONS

500 ft x 0.2607 cf/ft with 0 % excess = 130.4 cf
 942 ft x 0.2526 cf/ft with 100 % excess = 475.7 cf
 408 ft x 0.2526 cf/ft with 100 % excess = 206.3 cf
 TOTAL SLURRY VOLUME = 812.4 cf
 = 145 bbls

Operator Name: Devon Energy Corp
 Well Name: Helios 6 Fed 2H
 Job Description: Long String
 Date: October 28, 2010



Proposal No: 663350465A

FLUID SPECIFICATIONS

STAGE NO. 1

Spacer 30.0 bbls Fresh Water @ 8.34 ppg
 Spacer 1,500.0 gals Mud Clean II @ 8.45 ppg
 Spacer 10.0 bbls Fresh Water @ 8.34 ppg

FLUID	VOLUME CU-FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT.
Lead Slurry	1819	1 2	= 908 sacks (35:65) Poz (Fly Ash):Class H Cement + 3% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 0.7% bwoc FL-52A + 105.4% Fresh Water
Tail Slurry	1667	1 1.28	= 1303 sacks (50:50) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.5% bwoc Sodium Metasilicate + 0.4% bwoc FL-52A + 57.3% Fresh Water
Displacement			305.0 bbls Displacement Fluid

CEMENT PROPERTIES

	SLURRY NO.1	SLURRY NO.2
Slurry Weight (ppg)	12.50	14.20
Slurry Yield (cf/sack)	2.00	1.28
Amount of Mix Water (gps)	10.99	5.77
Estimated Pumping Time - 70 BC (HH:MM)	5:00	3:30
Free Water (mls) @ ° F @ 90 ° Angle		0.0
Fluid Loss (cc/30min) at 1000 psi and ° F		

COMPRESSIVE STRENGTH

12 hrs @ 140 ° F (psi)		50.0
24 hrs @ 140 ° F (psi)	175	
72 hrs @ 140 ° F (psi)	250	
12 hrs @ 150 ° F (psi)	700	
24 hrs @ 150 ° F (psi)		250
72 hrs @ 150 ° F (psi)		1500
		2000

Operator Name: Devon Energy Corp
Well Name: Helios 6 Fed 2H
Job Description: Long String
Date: October 28, 2010



Proposal No: 663350465A

FLUID SPECIFICATIONS (Continued)

STAGE NO. 2

Spacer				20.0 bbls Fresh Water @ 8.34 ppg
Lead Slurry	606	/	2.89	= 210 sacks Class C Cement + 1% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 3% bwoc Sodium Metasilicate + 157.8% Fresh Water
Tail Slurry	206	/	1.38	= 150 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.3% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 65.5% Fresh Water

<u>FLUID</u>	<u>VOLUME CU-FT</u>	<u>VOLUME FACTOR</u>	<u>AMOUNT AND TYPE OF CEMENT</u>
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Displacement			104.6 bbls Displacement Fluid
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CEMENT PROPERTIES

	SLURRY NO.1	SLURRY NO.2
Slurry Weight (ppg)	11.40	13.80
Slurry Yield (cf/sack)	2.89	1.38
Amount of Mix Water (gps)	17.78	6.44
Estimated Pumping Time - 70 BC (HH:MM)	3:45	2:30
Free Water (mls) @ ° F @ 90 ° Angle		
Fluid Loss (cc/30min) at 1000 psi and ° F		

COMPRESSIVE STRENGTH

12 hrs @ 112 ° F (psi)	
24 hrs @ 112 ° F (psi)	130
12 hrs @ 125 ° F (psi)	300
24 hrs @ 125 ° F (psi)	
72 hrs @ 125 ° F (psi)	900
	1800
	2500

CEMENT VOLUMES MAY VARY BASED ON CALIPER.

Plan #1 Data.txt

Devon Energy
Helios 6 Fed Com #2H - Plan #1

Eddy County
Sec 6 - T19S - R31E
Your Ref:

Measured			Sub-sea	Vertical	Local coordinates	
UTM Coordinates			Vertical	Dogleg	Northings	Eastings
Depth	Incl.	Azim.	Depth	Depth		
Northings	Eastings		Section	Rate		
(ft)	(ft)		(ft)	(ft)	(ft)	(ft)
(ft)			(ft)	(°/100ft)		
0.00	0.000	0.000	0.00	0.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
100.00	0.000	0.000	100.00	100.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
200.00	0.000	0.000	200.00	200.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
300.00	0.000	0.000	300.00	300.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
400.00	0.000	0.000	400.00	400.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
500.00	0.000	0.000	500.00	500.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
600.00	0.000	0.000	600.00	600.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
700.00	0.000	0.000	700.00	700.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
800.00	0.000	0.000	800.00	800.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
900.00	0.000	0.000	900.00	900.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
1000.00	0.000	0.000	1000.00	1000.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
1100.00	0.000	0.000	1100.00	1100.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
1200.00	0.000	0.000	1200.00	1200.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
1300.00	0.000	0.000	1300.00	1300.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
1400.00	0.000	0.000	1400.00	1400.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
1500.00	0.000	0.000	1500.00	1500.00	0.00 N	0.00 E
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1600.00	0.000	0.000	1600.00	1600.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
1700.00	0.000	0.000	1700.00	1700.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
1800.00	0.000	0.000	1800.00	1800.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
1900.00	0.000	0.000	1900.00	1900.00	0.00 N	0.00 E
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2000.00	0.000	0.000	2000.00	2000.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
2100.00	0.000	0.000	2100.00	2100.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
2200.00	0.000	0.000	2200.00	2200.00	0.00 N	0.00 E
612494.050 N	672661.310	E	0.00	0.00		
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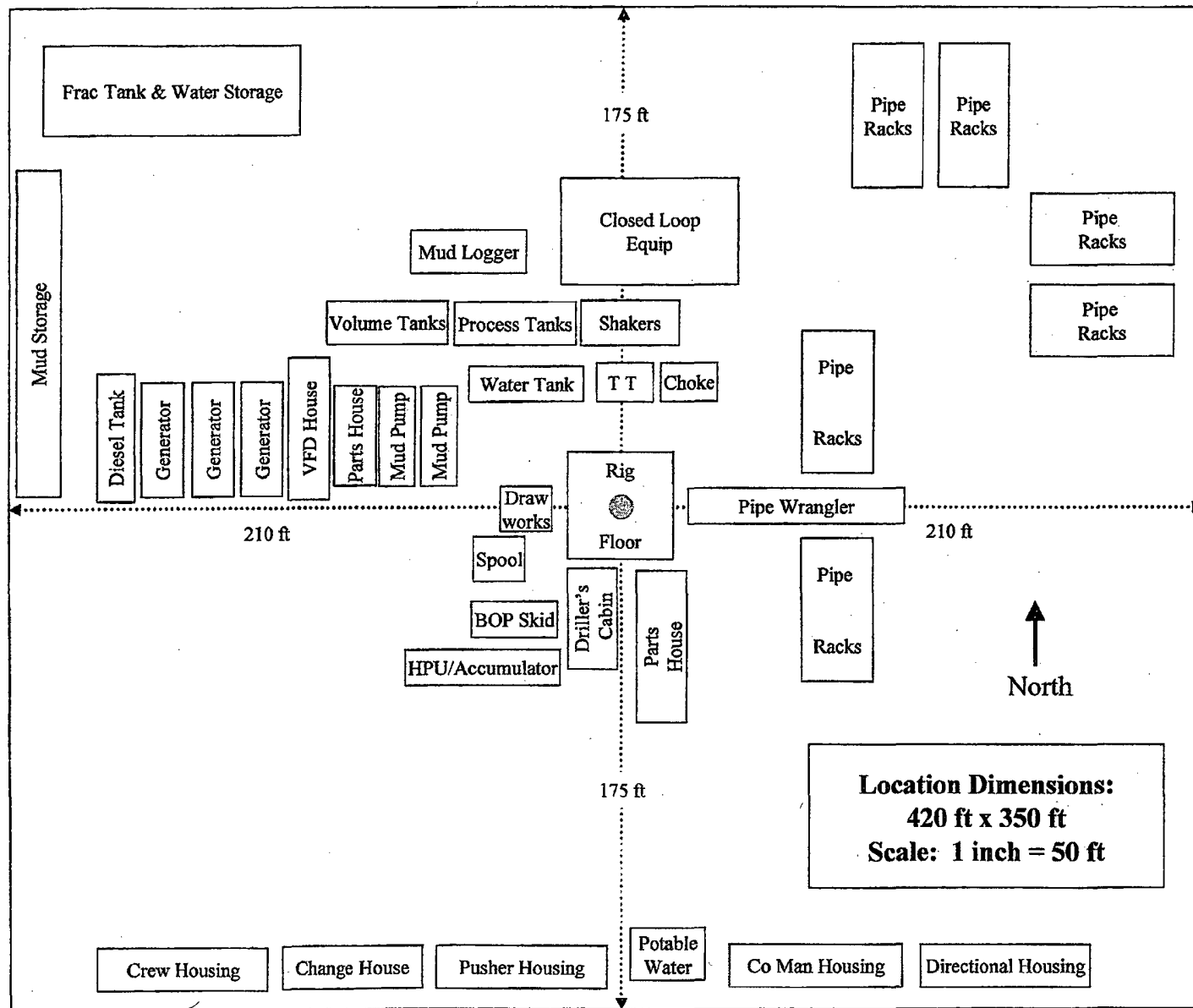
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2700.00		0.000	0.000	2700.00	2700.00	0.00	N
612494.050	N	672661.310	E	0.00	0.00		
2800.00		0.000	0.000	2800.00	2800.00	0.00	N
612494.050	N	672661.310	E	0.00	0.00		
2900.00		0.000	0.000	2900.00	2900.00	0.00	N
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612494.050	N	672661.310	E	0.00	0.00		
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612494.050	N	672661.310 E	0.00	0.00		
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612494.050	N	672661.310 E	0.00	0.00		
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612494.050	N	672661.310 E	0.00	0.00		
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6800.00	0.000	0.000	6800.00	6800.00	0.00 N	0.00 E
612494.050	N	672661.310 E	0.00	0.00		
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7100.00	0.000	0.000	7100.00	7100.00	0.00 N	0.00 E
612494.050	N	672661.310 E	0.00	0.00		
7200.00	0.000	0.000	7200.00	7200.00	0.00 N	0.00 E
612494.050	N	672661.310 E	0.00	0.00		
7300.00	0.000	0.000	7300.00	7300.00	0.00 N	0.00 E
612494.050	N	672661.310 E	0.00	0.00		
7400.00	0.000	0.000	7400.00	7400.00	0.00 N	0.00 E
612494.050	N	672661.310 E	0.00	0.00		
7500.00	0.000	0.000	7500.00	7500.00	0.00 N	0.00 E
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7600.00	0.000	0.000	7600.00	7600.00	0.00 N	0.00 E
612494.050	N	672661.310 E	0.00	0.00		
7700.00	0.000	0.000	7700.00	7700.00	0.00 N	0.00 E
612494.050	N	672661.310 E	0.00	0.00		
7800.00	0.000	0.000	7800.00	7800.00	0.00 N	0.00 E
612494.050	N	672661.310 E	0.00	0.00		
7900.00	0.000	0.000	7900.00	7900.00	0.00 N	0.00 E
612494.050	N	672661.310 E	0.00	0.00		
8000.00	0.000	0.000	8000.00	8000.00	0.00 N	0.00 E
612494.050	N	672661.310 E	0.00	0.00		
8100.00	0.000	0.000	8100.00	8100.00	0.00 N	0.00 E
612494.050	N	672661.310 E	0.00	0.00		
8200.00	0.000	0.000	8200.00	8200.00	0.00 N	0.00 E
612494.050	N	672661.310 E	0.00	0.00		
8225.00	0.000	0.000	8225.00	8225.00	0.00 N	0.00 E
612494.050	N	672661.310 E	0.00	0.00		
8250.00	2.513	3.280	8249.99	8249.99	0.55 N	0.03 E
612494.597	N	672661.341 E	0.55	10.05		
8300.00	7.539	3.280	8299.78	8299.78	4.92 N	0.28 E
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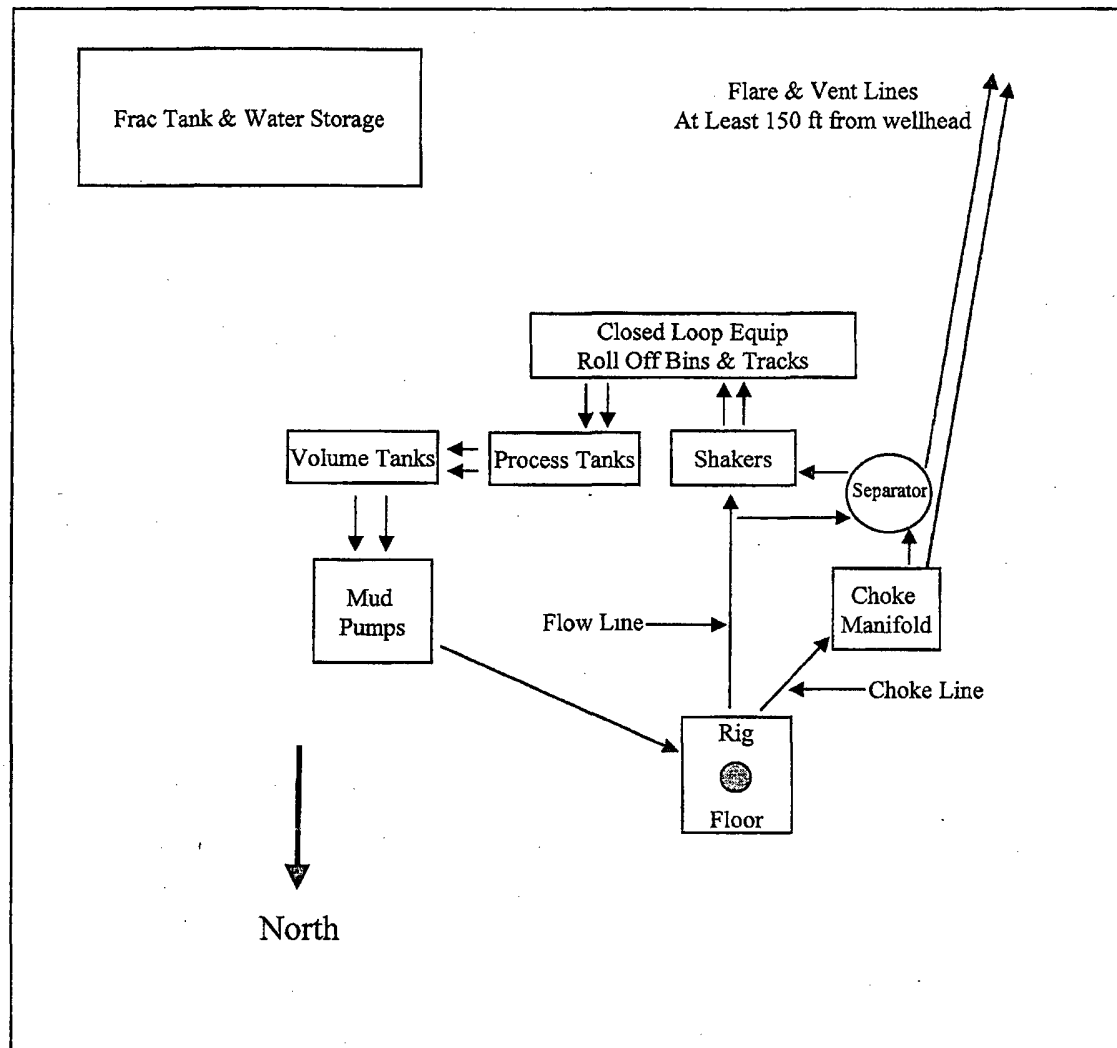
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612507.679	N	672662.091	E	13.65	10.05	
8400.00		17.591	3.280	8397.26	8397.26	26.61 N 1.53 E
612520.660	N	672662.835	E	26.65	10.05	
8450.00		22.617	3.280	8444.20	8444.20	43.76 N 2.51 E
612537.812	N	672663.818	E	43.83	10.05	
8500.00		27.643	3.280	8489.46	8489.46	64.95 N 3.72 E
612559.004	N	672665.032	E	65.06	10.05	
8550.00		32.669	3.280	8532.67	8532.67	90.02 N 5.16 E
612584.073	N	672666.469	E	90.17	10.05	
8600.00		37.695	3.280	8573.53	8573.53	118.77 N 6.81 E
612612.825	N	672668.117	E	118.97	10.05	
8650.00		42.721	3.280	8611.70	8611.70	150.99 N 8.65 E
612645.040	N	672669.963	E	151.24	10.05	
8700.00		47.746	3.280	8646.90	8646.90	186.42 N 10.68 E
612680.469	N	672671.994	E	186.73	10.05	
8750.00		52.772	3.280	8678.86	8678.86	224.79 N 12.88 E
612718.841	N	672674.193	E	225.16	10.05	
8800.00		57.798	3.280	8707.32	8707.32	265.81 N 15.23 E
612759.861	N	672676.543	E	266.25	10.05	
8850.00		62.824	3.280	8732.08	8732.08	309.16 N 17.72 E
612803.212	N	672679.028	E	309.67	10.05	
8900.00		67.850	3.280	8752.93	8752.93	354.51 N 20.32 E
612848.562	N	672681.627	E	355.09	10.05	
8950.00		72.876	3.280	8769.73	8769.73	401.51 N 23.01 E
612895.562	N	672684.320	E	402.17	10.05	
9000.00		77.902	3.280	8782.34	8782.34	449.80 N 25.78 E
612943.850	N	672687.088	E	450.54	10.05	
9050.00		82.928	3.280	8790.66	8790.66	499.01 N 28.60 E
612993.056	N	672689.908	E	499.82	10.05	
9100.00		87.954	3.280	8794.64	8794.64	548.75 N 31.45 E
613042.800	N	672692.759	E	549.65	10.05	
9120.35		90.000	3.280	8795.00	8795.00	569.07 N 32.61 E
613063.116	N	672693.923	E	570.00	10.05	
9200.00		90.000	3.280	8795.00	8795.00	648.58 N 37.17 E
613142.632	N	672698.480	E	649.65	0.00	
9300.00		90.000	3.280	8795.00	8795.00	748.42 N 42.89 E
613242.468	N	672704.201	E	749.65	0.00	
9400.00		90.000	3.280	8795.00	8795.00	848.25 N 48.61 E
613342.304	N	672709.923	E	849.65	0.00	
9500.00		90.000	3.280	8795.00	8795.00	948.09 N 54.33 E
613442.140	N	672715.645	E	949.65	0.00	
9600.00		90.000	3.280	8795.00	8795.00	1047.93 N 60.06 E
613541.977	N	672721.366	E	1049.65	0.00	
9700.00		90.000	3.280	8795.00	8795.00	1147.76 N 65.78 E
613641.813	N	672727.088	E	1149.65	0.00	
9800.00		90.000	3.280	8795.00	8795.00	1247.60 N 71.50 E
613741.649	N	672732.809	E	1249.65	0.00	
9900.00		90.000	3.280	8795.00	8795.00	1347.44 N 77.22 E
613841.485	N	672738.531	E	1349.65	0.00	
10000.00		90.000	3.280	8795.00	8795.00	1447.27 N 82.94 E
613941.321	N	672744.252	E	1449.65	0.00	
10100.00		90.000	3.280	8795.00	8795.00	1547.11 N 88.66 E
614041.158	N	672749.974	E	1549.65	0.00	
10200.00		90.000	3.280	8795.00	8795.00	1646.94 N 94.39 E
614140.994	N	672755.695	E	1649.65	0.00	
10300.00		90.000	3.280	8795.00	8795.00	1746.78 N 100.11 E
614240.830	N	672761.417	E	1749.65	0.00	
10400.00		90.000	3.280	8795.00	8795.00	1846.62 N 105.83 E
614340.666	N	672767.138	E	1849.65	0.00	
10500.00		90.000	3.280	8795.00	8795.00	1946.45 N 111.55 E
614440.502	N	672772.860	E	1949.65	0.00	
10600.00		90.000	3.280	8795.00	8795.00	2046.29 N 117.27 E
614540.338	N	672778.582	E	2049.65	0.00	

			Plan #1 Data.txt			
10700.00	90.000	3.280	8795.00	8795.00	2146.12 N	122.99 E
614640.175	N 672784.303	E	2149.65	0.00		
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614740.011	N 672790.025	E	2249.65	0.00		
10900.00	90.000	3.280	8795.00	8795.00	2345.80 N	134.44 E
614839.847	N 672795.746	E	2349.65	0.00		
11000.00	90.000	3.280	8795.00	8795.00	2445.63 N	140.16 E
614939.683	N 672801.468	E	2449.65	0.00		
11100.00	90.000	3.280	8795.00	8795.00	2545.47 N	145.88 E
615039.519	N 672807.189	E	2549.65	0.00		
11200.00	90.000	3.280	8795.00	8795.00	2645.31 N	151.60 E
615139.356	N 672812.911	E	2649.65	0.00		
11300.00	90.000	3.280	8795.00	8795.00	2745.14 N	157.32 E
615239.192	N 672818.632	E	2749.65	0.00		
11400.00	90.000	3.280	8795.00	8795.00	2844.98 N	163.04 E
615339.028	N 672824.354	E	2849.65	0.00		
11500.00	90.000	3.280	8795.00	8795.00	2944.81 N	168.77 E
615438.864	N 672830.076	E	2949.65	0.00		
11600.00	90.000	3.280	8795.00	8795.00	3044.65 N	174.49 E
615538.700	N 672835.797	E	3049.65	0.00		
11700.00	90.000	3.280	8795.00	8795.00	3144.49 N	180.21 E
615638.536	N 672841.519	E	3149.65	0.00		
11800.00	90.000	3.280	8795.00	8795.00	3244.32 N	185.93 E
615738.373	N 672847.240	E	3249.65	0.00		
11900.00	90.000	3.280	8795.00	8795.00	3344.16 N	191.65 E
615838.209	N 672852.962	E	3349.65	0.00		
12000.00	90.000	3.280	8795.00	8795.00	3444.00 N	197.37 E
615938.045	N 672858.683	E	3449.65	0.00		
12100.00	90.000	3.280	8795.00	8795.00	3543.83 N	203.09 E
616037.881	N 672864.405	E	3549.65	0.00		
12200.00	90.000	3.280	8795.00	8795.00	3643.67 N	208.82 E
616137.717	N 672870.126	E	3649.65	0.00		
12300.00	90.000	3.280	8795.00	8795.00	3743.50 N	214.54 E
616237.554	N 672875.848	E	3749.65	0.00		
12400.00	90.000	3.280	8795.00	8795.00	3843.34 N	220.26 E
616337.390	N 672881.570	E	3849.65	0.00		
12500.00	90.000	3.280	8795.00	8795.00	3943.18 N	225.98 E
616437.226	N 672887.291	E	3949.65	0.00		
12600.00	90.000	3.280	8795.00	8795.00	4043.01 N	231.70 E
616537.062	N 672893.013	E	4049.65	0.00		
12700.00	90.000	3.280	8795.00	8795.00	4142.85 N	237.42 E
616636.898	N 672898.734	E	4149.65	0.00		
12800.00	90.000	3.280	8795.00	8795.00	4242.68 N	243.15 E
616736.735	N 672904.456	E	4249.65	0.00		
12900.00	90.000	3.280	8795.00	8795.00	4342.52 N	248.87 E
616836.571	N 672910.177	E	4349.65	0.00		
13000.00	90.000	3.280	8795.00	8795.00	4442.36 N	254.59 E
616936.407	N 672915.899	E	4449.65	0.00		
13100.00	90.000	3.280	8795.00	8795.00	4542.19 N	260.31 E
617036.243	N 672921.620	E	4549.65	0.00		
13152.51	90.000	3.280	8795.00	8795.00	4594.62 N	263.32 E
617088.670	N 672924.625	E	4602.16	0.00		

Rig Location Layout



Closed Loop Equipment Diagram

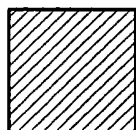




devon

Proposed Interim Site Reclamation

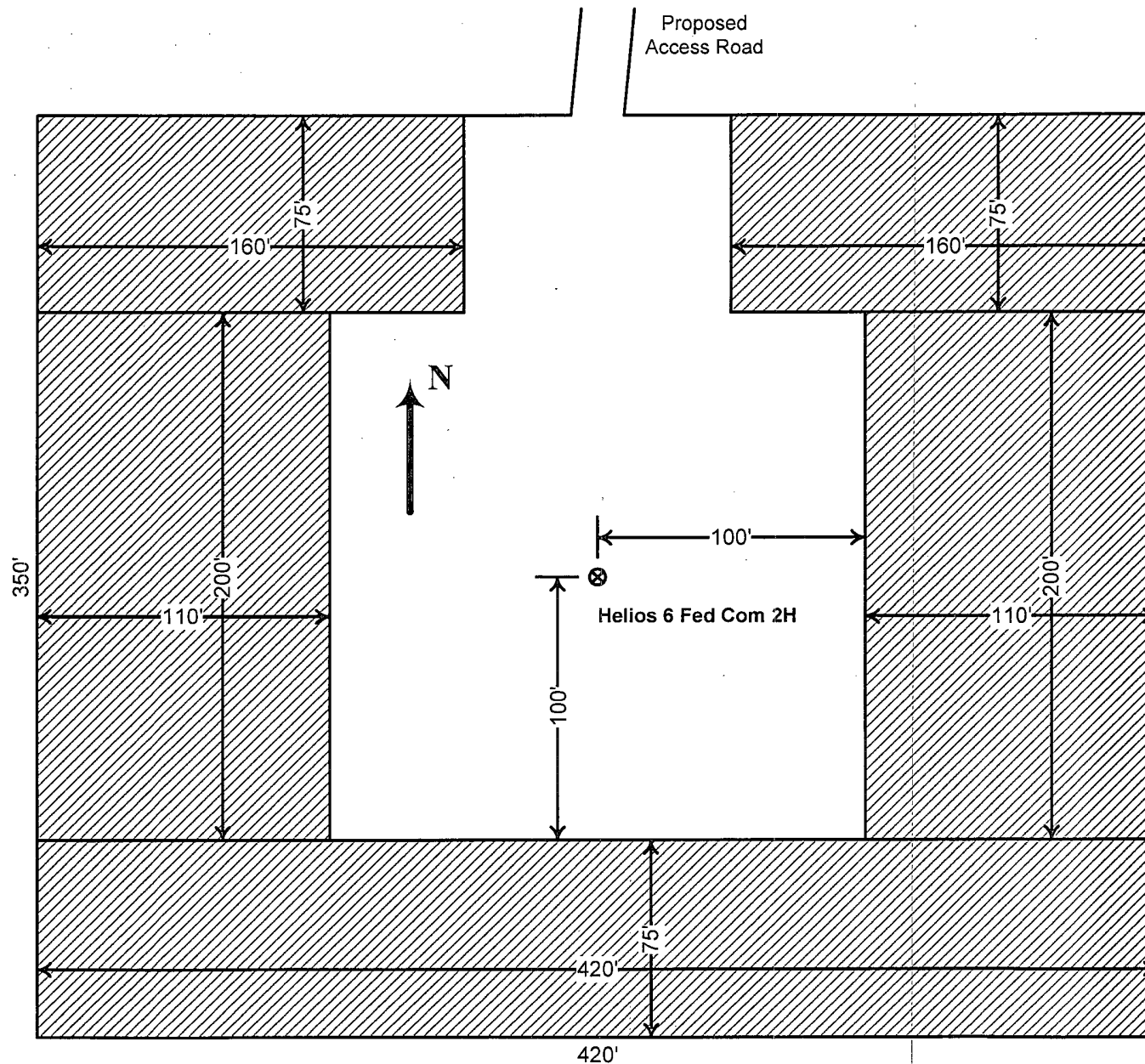
Devon Energy Production Co.
Helios 6 Fed Com 2H
340' FSL & 1955' FEL
Sec. 6-T19S-R31E
Eddy County, NM



Proposed
Reclamation
Area



Scale: 1in = 60ft.



DEVON ENERGY PRODUCTION COMPANY LP

General Production Facilities Diagram

