

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Hogge 3-16C4							
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT							
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME							
6. NAME OF OPERATOR EP ENERGY E&P COMPANY, L.P.						7. OPERATOR PHONE 713 997-5038							
8. ADDRESS OF OPERATOR 1001 Louisiana, Houston, TX, 77002						9. OPERATOR E-MAIL maria.gomez@epenergy.com							
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>							
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Frank M Carozza						14. SURFACE OWNER PHONE (if box 12 = 'fee') 702-860-2157							
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 3165 Bel Air Dr, Las Vegas, NV						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')							
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>							
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN	
LOCATION AT SURFACE		1574 FSL 1560 FWL		NESW		16		3.0 S		4.0 W		U	
Top of Uppermost Producing Zone		1574 FSL 1560 FWL		NESW		16		3.0 S		4.0 W		U	
At Total Depth		1574 FSL 1560 FWL		NESW		16		3.0 S		4.0 W		U	
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1560			23. NUMBER OF ACRES IN DRILLING UNIT 640							
25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2000			26. PROPOSED DEPTH MD: 11900 TVD: 11900			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City							
27. ELEVATION - GROUND LEVEL 5886			28. BOND NUMBER 400JU0708										
Hole, Casing, and Cement Information													
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight			
COND	17.5	13.375	0 - 600	54.5	J-55 ST&C	8.8	Class G	758	1.15	15.8			
SURF	12.25	9.625	0 - 2000	40.0	N-80 LT&C	9.2	Unknown	225	3.16	11.0			
							Unknown	195	1.3	14.3			
I1	8.75	7	0 - 9000	29.0	HCP-110 LT&C	10.5	Unknown	407	2.31	12.0			
							Unknown	187	1.64	13.0			
L1	6.125	5	8800 - 11900	18.0	HCP-110 LT&C	12.7	Unknown	184	1.47	14.2			
ATTACHMENTS													
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES													
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN							
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP							
NAME Maria S. Gomez			TITLE Principal Regulatory Analyst			PHONE 713 997-5038							
SIGNATURE			DATE 01/16/2014			EMAIL maria.gomez@epenergy.com							
API NUMBER ASSIGNED 43013527750000			APPROVAL			 Permit Manager							

**Hogge 3-16C4
Sec. 16, T3S, R4W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	4,103' TVD
Green River (GRTN1)	4,803' TVD
Mahogany Bench	5,703' TVD
L. Green River	7,233' TVD
Wasatch	9,063' TVD
T.D. (Permit)	11,900' TVD

2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	4,103' MD / TVD
	Green River (GRTN1)	4,803' MD / TVD
	Mahogany Bench	5,703' MD / TVD
Oil	L. Green River	7,233' MD / TVD
Oil	Wasatch	9,063' MD / TVD

3. Pressure Control Equipment: (Schematic Attached)

A 4.5" by 20.0" rotating head on structural pipe from surface to 600' MD/TVD. A 4.5" by 13-3/8" Smith Rotating Head (Diverter Stack) from 600' MD/TVD to 2,000' MD/TVD on Conductor. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 2,000' MD/TVD to 9,000' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 9,000' MD/TVD to TD (11,900' MD/TVD).

The BOPE and related equipment will meet the requirements of the 5M and 10M system.

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing

will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with 3-½" pipe rams, blind rams, mud cross and rotating head from surface shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

Statement on Accumulator System and Location of Hydraulic Controls:

Precision Rig # 406 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Pason Gas Monitoring 600' - TD
- B) Mud logger with gas monitor – 2,000' to TD (11,900' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations for intermediate and production hole will be based on minimum 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. A minimum of 50% excess over gauge volume will be pumped on surface casing.

5. **Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	8.8 – 9.2
Intermediate	WBM	9.2 – 10.5
Production	WBM	10.5 – 12.7

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 2,000' MD/TVD – TD (11,900' MD/TVD)

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from surface casing shoe to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 11,900' TVD equals approximately 7,859 psi. This is calculated based on a 0.6604 psi/ft gradient (12.7 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 5,241 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 9,000' TVD = 7,200 psi

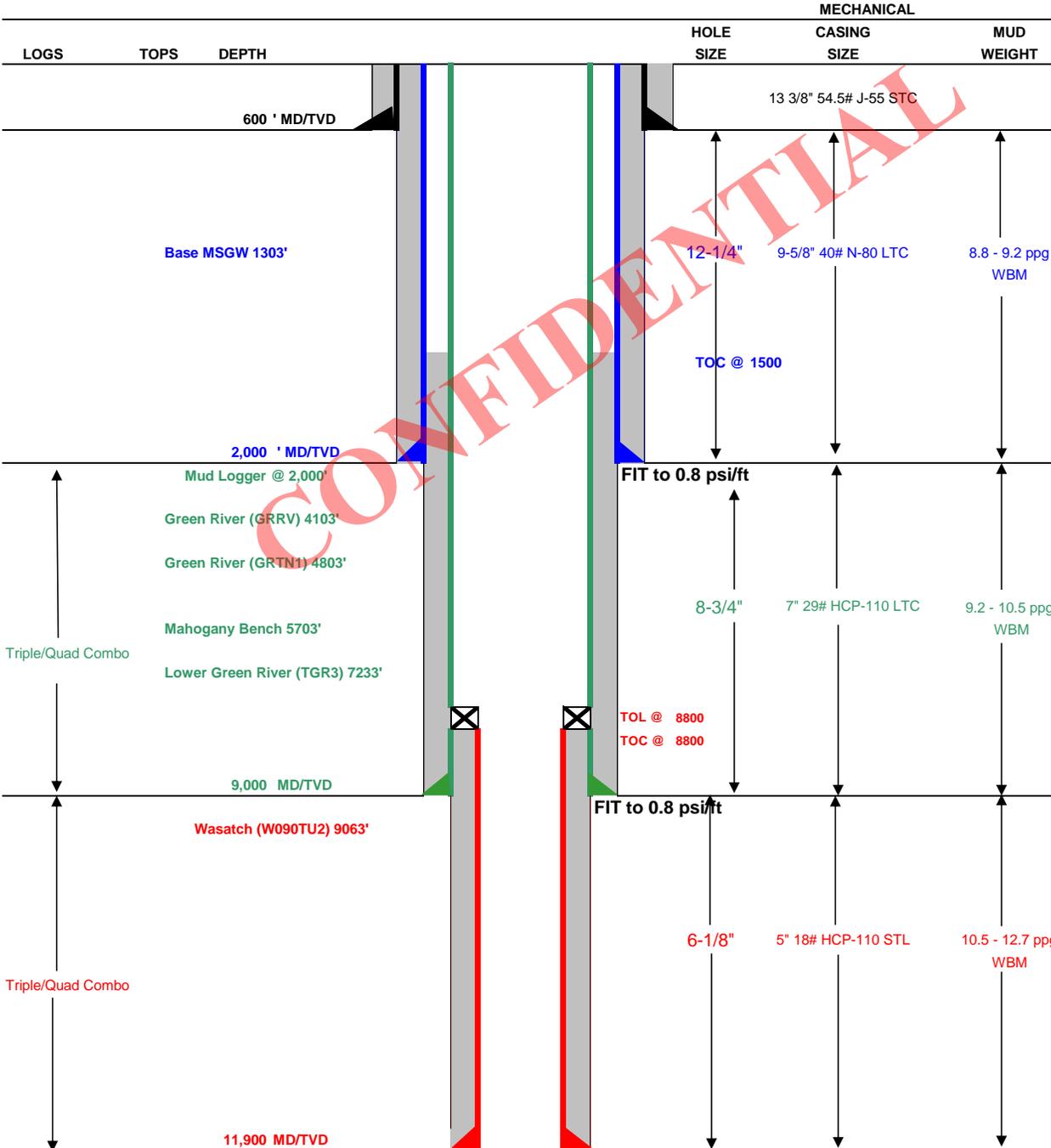
BOPE and casing design will be based on the lesser of the two MASPs which is 5,241 psi.

8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**



Drilling Schematic

Company Name: EP ENERGY	Date: March 27, 2014
Well Name: Hogge 3-16C4	TD: 11,900
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 16 T3S R4W 1574' FSL 1560' FWL	BHL: Straight Hole
Objective Zone(s): Green River, Wasatch	Elevation: 5886.2
Rig: Precision 406	Spud (est.): TBD
BOPE Info: 4.5 x 13 3/8 Diverter System w/ rotating head from 600' to 2,000' 11 10M BOPE w/ rotating head & 5M annular from 2,000' to 9,000' 11 10M BOPE w/ rotating head, spacer spool, 5M annular, flex rams, blind rams, single w/ flex rams from 9,000' to TD	



DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	600	54.5	J-55	STC	2,740	1,130	514
SURFACE	9-5/8"	0	2000	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	9000	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	8800	11900	18.00	HCP-110	STL	13,950	14,360	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		600	Class G + 3% CACL2	758	100%	15.8 ppg	1.15
SURFACE	Lead	1,500	EXTENDACEM SYSTEM: 5 lbm/sk Silicalite Compacted + 0.25 lbm/sk Kwik Seal + 0.125 lbm/sk Poly-E-Flake + 2% Bentonite	225	75%	11.0 ppg	3.16
	Tail	500	HALCEM SYSTEM: 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.5% HR-5	195	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	5,700	EXTENDACEM SYSTEM: Type G Cement + 10% Bentonite + 0.1% SA-1015 + 0.2% Econolite + 0.2% Halad-322 + 3 lbm/sk Silicalite Compacted + 1 lbm/sk Granulite TR 1/4 + 0.125 lbm/sk Poly-E-Flake + 5 lbm/sk Kol-Seal + 0.8% HR-5	407	10%	12.0 ppg	2.31
	Tail	1,800	EXPANDACEM SYSTEM: Type G Cement + 0.25 lbm/sk Poly-E-Flake + 4% Bentonite + 0.1% Halad-413 + 5 lb/sk Silicalite + 0.15 SA-1015	187	10%	13.0 ppg	1.64
PRODUCTION LINER		3,100	EXTENDACEM SYSTEM: 0.3% Super CBL + 0.1% SA-1015 + 0.3% Halad(R)-413 + 0.5% SCR-100 + 0.125 lbm/sk Poly-E-Flake + 3 lbm/sk Silicalite Compacted + 20% SSA-1	184	25%	14.20	1.47

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at 7,200'.
LINER	Float shoe, 1 joint, float collar, 1 joint, landing collar. Thread lock all FE. Maker joints every 1000'.

PROJECT ENGINEER(S): Brad Macafee 713-997-6383

MANAGER: Bob Dodd

EP ENERGY E&P COMPANY, L.P.
HOGGE 3-16C4
SECTION 16, T3S, R4W, U.S.B.&M.

PROCEED NORTH ON STATE ROAD 87 FROM THE INTERSECTION OF STATE ROAD 87 WITH US HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 3.54 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL EASTERLY ON A COUNTY ROAD 2.35 MILES TO AN INTERSECTION;

TURN LEFT AND TRAVEL NORTHERLY ON A GRAVEL ROAD 0.36 MILES TO THE BEGINNING OF THE ACCESS ROAD;

TURN RIGHT AND FOLLOW ROAD FLAGS SOUTHWESTERLY 0.04 MILES TO THE PROPOSED LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 6.29 MILES.

CONFIDENTIAL

EP ENERGY E&P COMPANY, L.P.

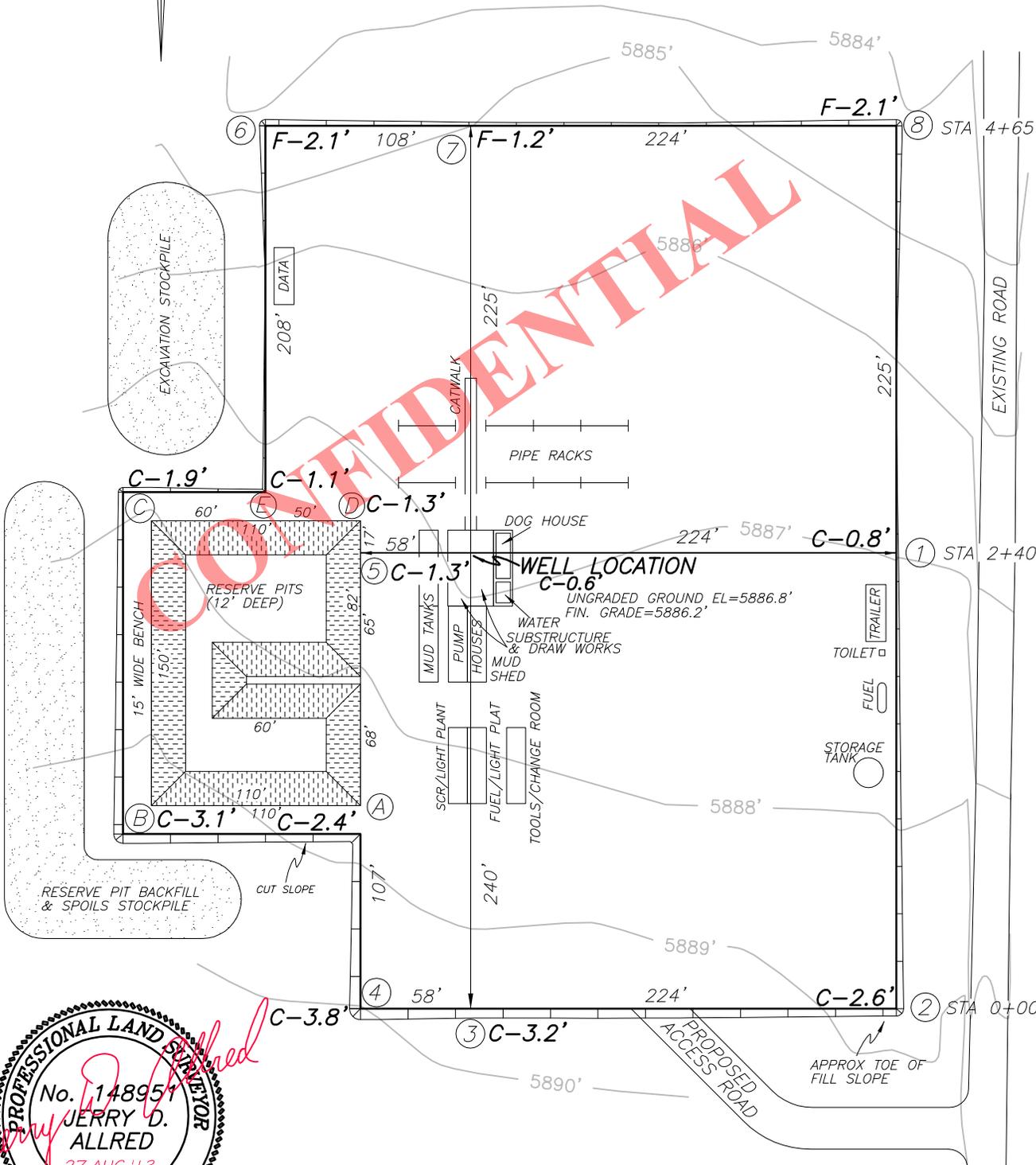
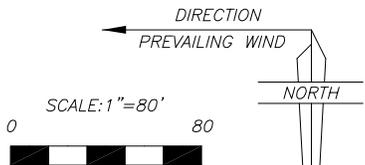
LOCATION LAYOUT FOR

HOGGE 3-16C4

SECTION 16, T3S, R4W, U.S.B.&M.

1574' FSL, 1560' FWL

FIGURE #1



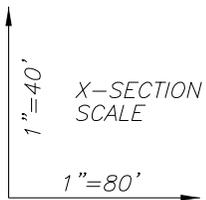
JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESE, UTAH 84021
(435) 738-5352

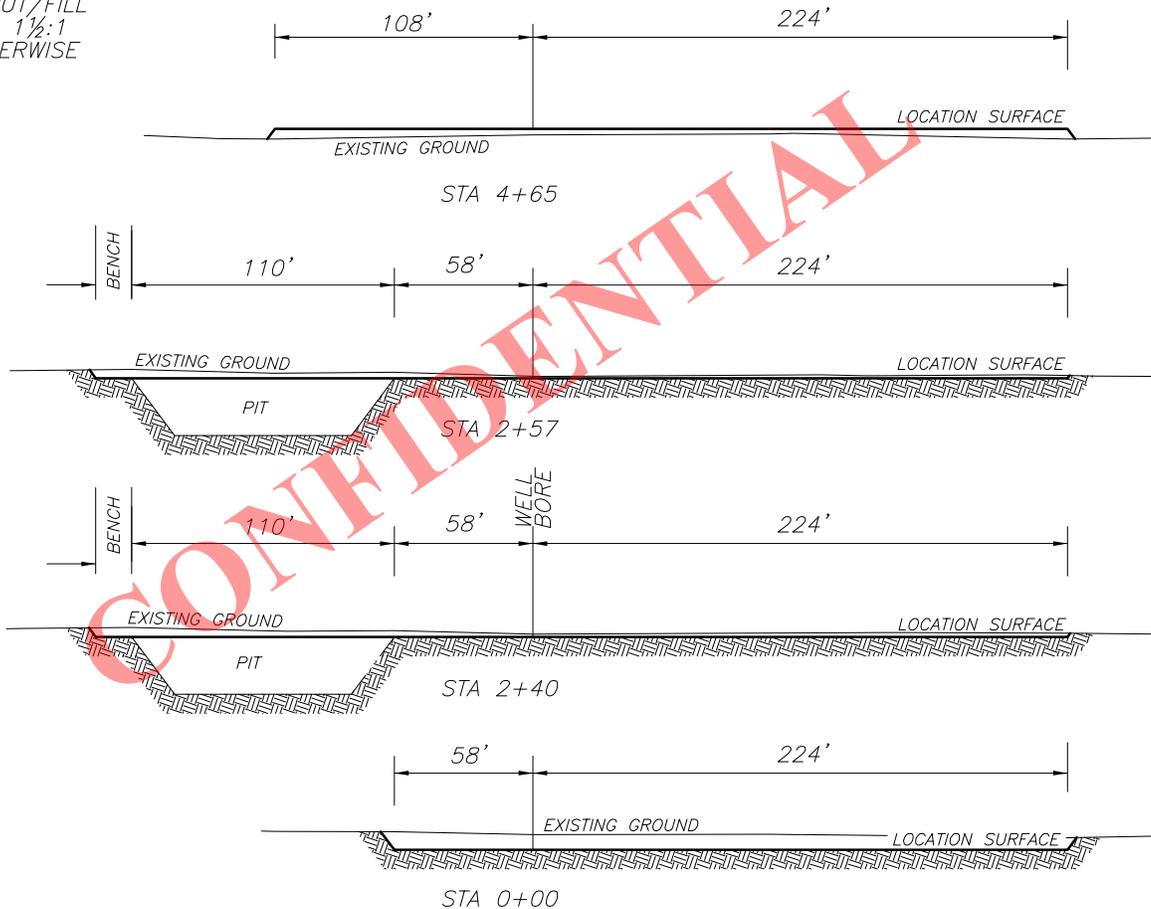
EP ENERGY E&P COMPANY, L.P.

FIGURE #2

LOCATION LAYOUT FOR
 HOGGE 3-16C4
 SECTION 16, T3S, R4W, U.S.B.&M.
 1574' FSL, 1560' FWL



NOTE: ALL CUT/FILL
 SLOPES ARE 1½:1
 UNLESS OTHERWISE
 NOTED



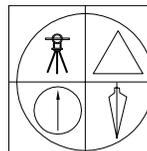
APPROXIMATE YARDAGES

TOTAL CUT (INCLUDING PIT) = 13,081 CU. YDS.

PIT CUT = 4955 CU. YDS.
 TOPSOIL STRIPPING: (6") = 3120 CU. YDS.
 REMAINING LOCATION CUT = 5006 CU. YDS

TOTAL FILL = 1682 CU. YDS.

LOCATION SURFACE GRAVEL=1653 CU. YDS. (4" DEEP)
 ACCESS ROAD GRAVEL=50 CU. YDS.



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EP ENERGY E&P COMPANY, L.P.

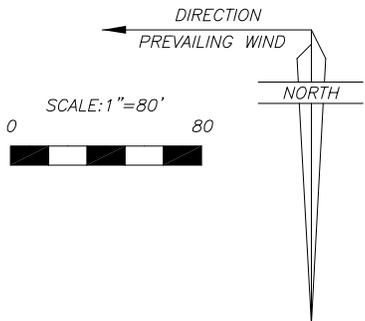
FIGURE #3

LOCATION LAYOUT FOR

HOGGE 3-16C4

SECTION 16, T3S, R4W, U.S.B.&M.

1574' FSL, 1560' FWL

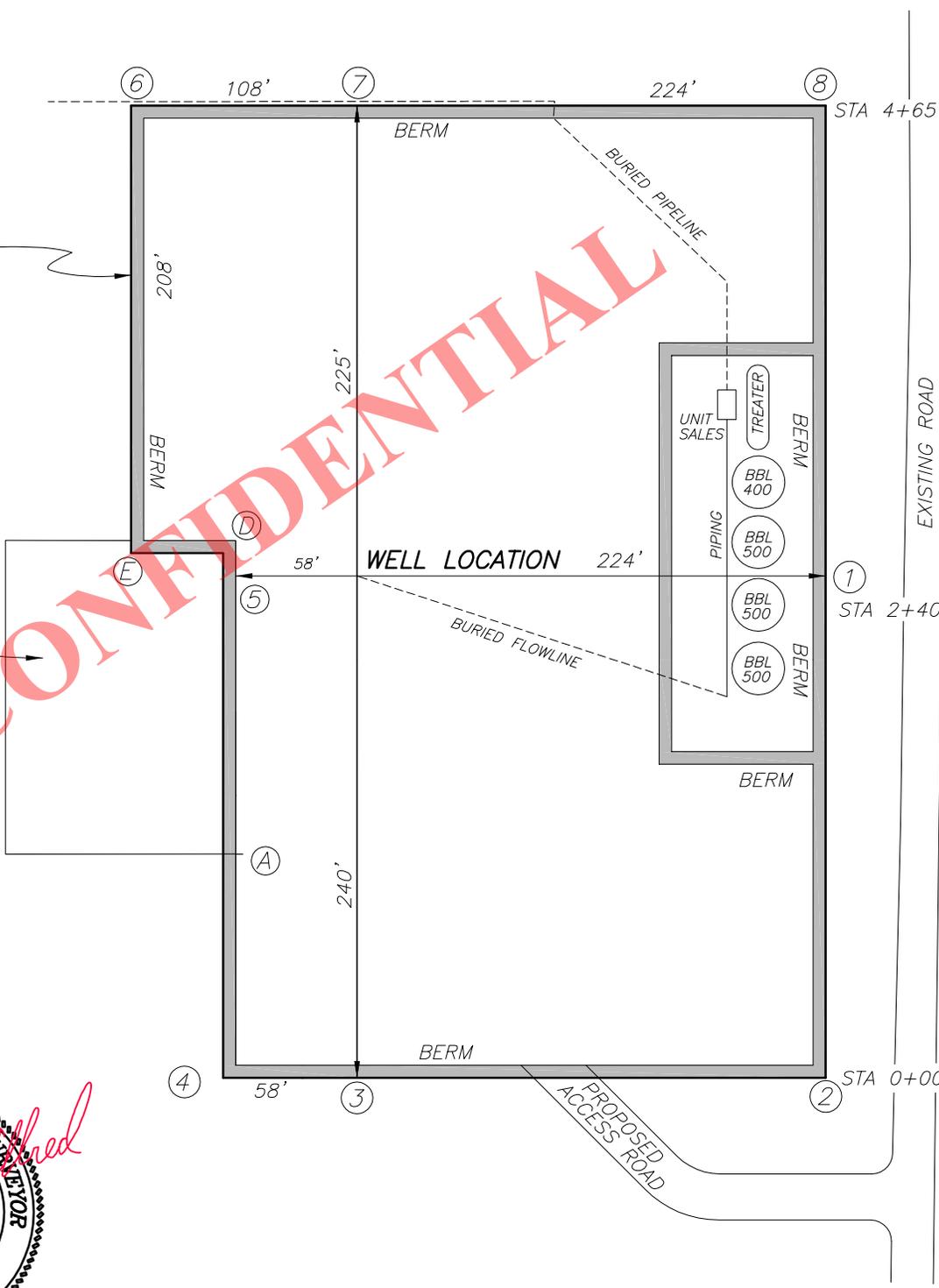


WELL PAD AREA BERMED AND USED FOR PRODUCTION

ENTIRE WELL PAD RECONTOURED BACK TO AVERAGE SLOPE FOR FINAL SURFACE RECLAMATION AFTER PRODUCTION

PIT AREA REGRADED BACK TO SLOPE FOR INTERIM RECLAMATION

CONFIDENTIAL



Jerry D. Allred

PROFESSIONAL LAND SURVEYOR
 No. 148957
 JERRY D. ALLRED
 27 AUG '13
 STATE OF UTAH

JERRY D. ALLRED & ASSOCIATES
 SURVEYING CONSULTANTS

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 DUCHESNE, UTAH 84021
 (435) 738-5352

S 00°18'01" E 2624.22'



SCALE: 1"=400'



LINE	BEARING	DISTANCE
L1	N 90°00'00" E	126.27'
L2	S 45°00'00" E	50.91'
L3	N 90°00'00" E	354.33'
L4	S 00°00'00" W	518.37'
L5	S 89°16'35" W	525.04'
L6	N 00°51'27" E	561.06'

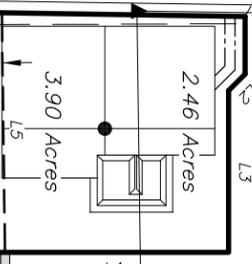
FOUND COUNTY MONUMENT AT QUARTER CORNER

EP ENERGY E&P COMPANY, L.P.
SURFACE USE AREA
HOGGE 3-16C4
6.36 Acres

FOUND LOT CORNERS

S 00°13'36" E 2620.81'

EXISTING ROAD



WELL PAD SUBJECT TO A 30' WIDE RIGHT-OF-WAY FOR ACCESS TO BACK OF LOT 16-24

NE 1/4 SW 1/4

LOT 16-23 CAROZZA
PROPOSED 40' WIDE PIPELINE CORRIDOR RIGHT-OF-WAY

LOT 16-24 HOGGE
N 89°16'35" E 832.88'

N 32°11'04" W 1571.15'

N 00°10'24" W 1307.57'

SEC 17 SEC 16
SEC 20 SEC 21

FOUND COUNTY MONUMENT AT SECTION CORNER

N 89°09'02" E 2662.20'

FOUND COUNTY MONUMENT AT QUARTER CORNER

LOCATION USE AREA AND PIPELINE
CORRIDOR RIGHT-OF-WAY SURVEY FOR
EP ENERGY E&P COMPANY, L.P.
HOGGE 3-16C4
SECTION 16, T3S, R4W, U.S.B.&M.
DUCHESE COUNTY, UTAH

DESCRIPTION OF USE AREA BOUNDARY

Commencing at the West Quarter Corner of Section 16, Township 3 South, Range 4 West of the Uintah Special Base and Meridian:
Thence South 61°27'22" East 1501.00 feet to the TRUE POINT OF BEGINNING;
Thence North 90°00'00" East 126.27 feet;
Thence South 45°00'00" East 50.91 feet;
Thence North 90°00'00" East 354.33 feet;
Thence South 00°00'00" West 518.37 feet;
Thence South 89°16'35" West 525.04 feet;
Thence North 00°51'27" East 561.06 feet to the TRUE POINT OF BEGINNING, containing 6.36 acres.

PIPELINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 40 feet wide pipeline corridor right-of-way over portions of Section 16, Township 3 South, Range 4 West of the Uintah Special Base and Meridian, the centerline of said right-of-way being further described as follows:
Commencing at the South Quarter Corner of said Section 16:
Thence North 32°11'04" West 1571.15 feet to the TRUE POINT OF BEGINNING, said point being on the East line of the EP Energy E&P Co. Hogge 3-16C4 well location use boundary;
Thence North 89°16'35" East 832.88 feet to the East line of the NE 1/4 of the SW 1/4 of said Section and an existing pipeline right-of-way. Said right-of-way being 832.88 feet in length with the side lines being shortened or elongated to intersect said use area boundary and said pipeline right-of-way.

SURVEYOR'S CERTIFICATE

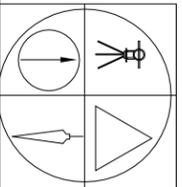
This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and pipeline corridor right-of-way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.



Jerry D. Allred, Professional Land Surveyor,
Certificate 148951 (Utah)

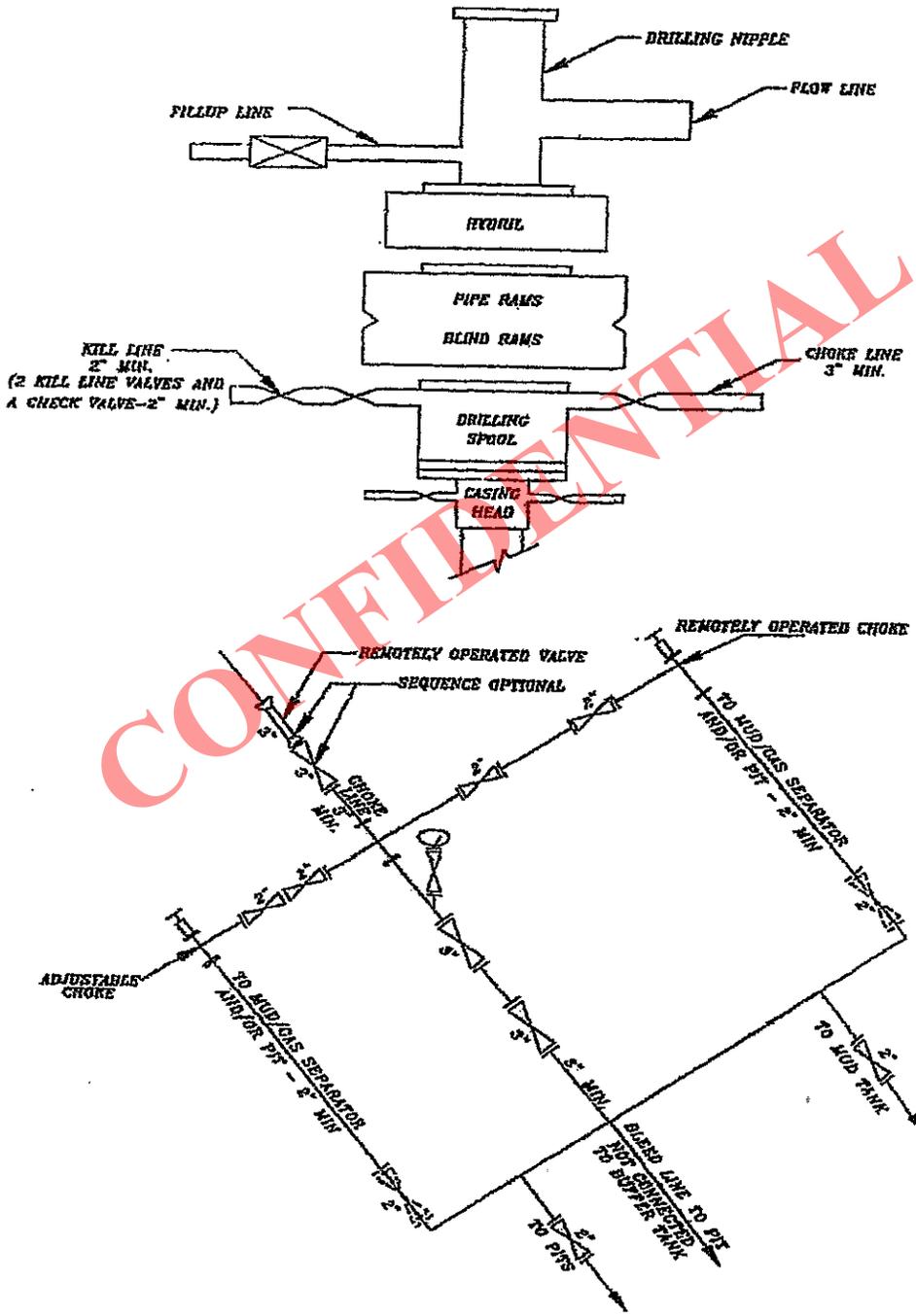
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90358"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

30 AUG '13 01-128-415

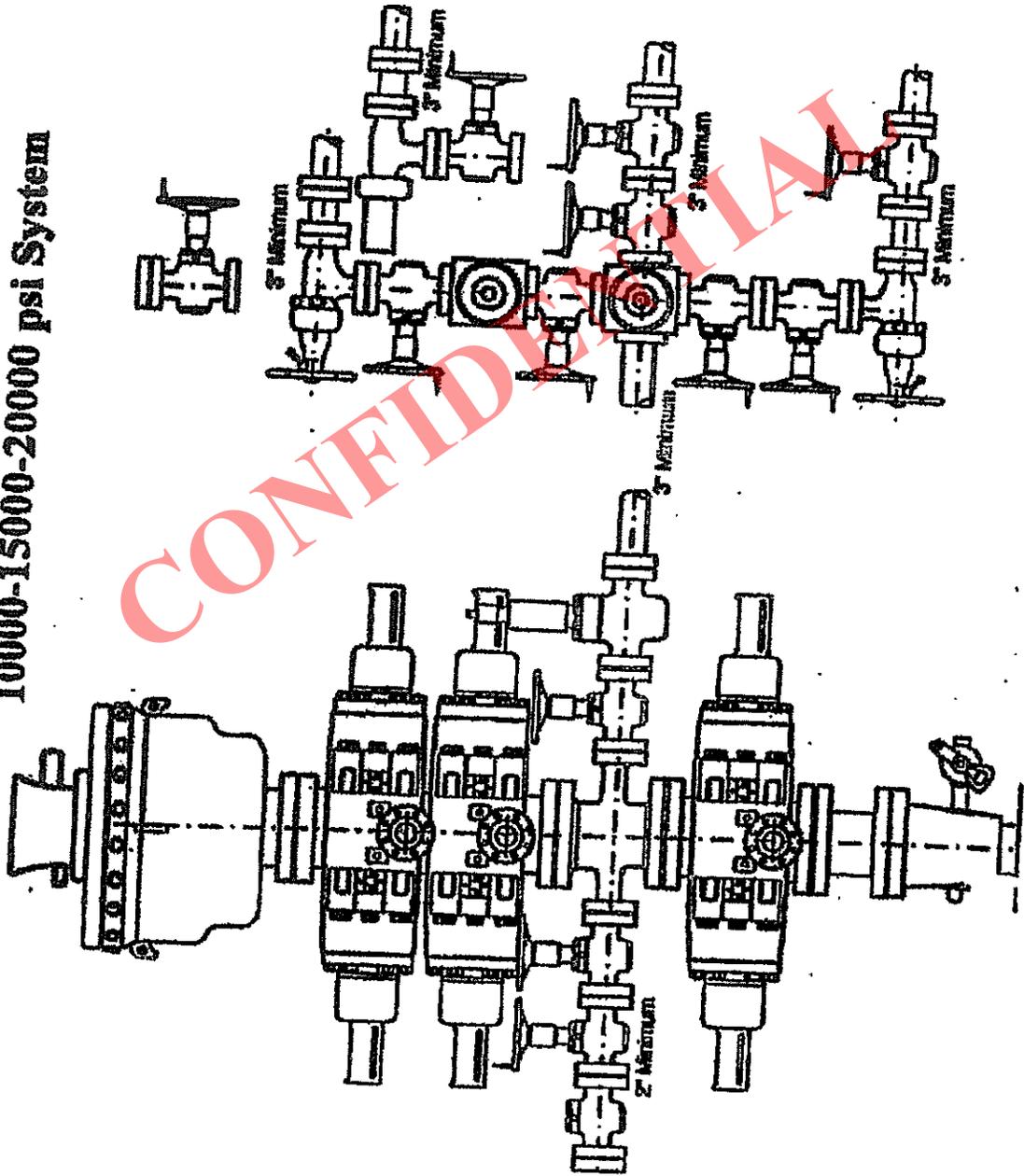


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5M BOP STACK and CHOKE MANIFOLD SYSTEM



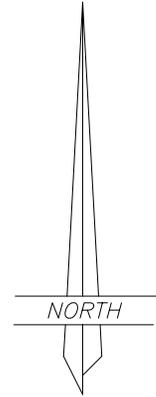
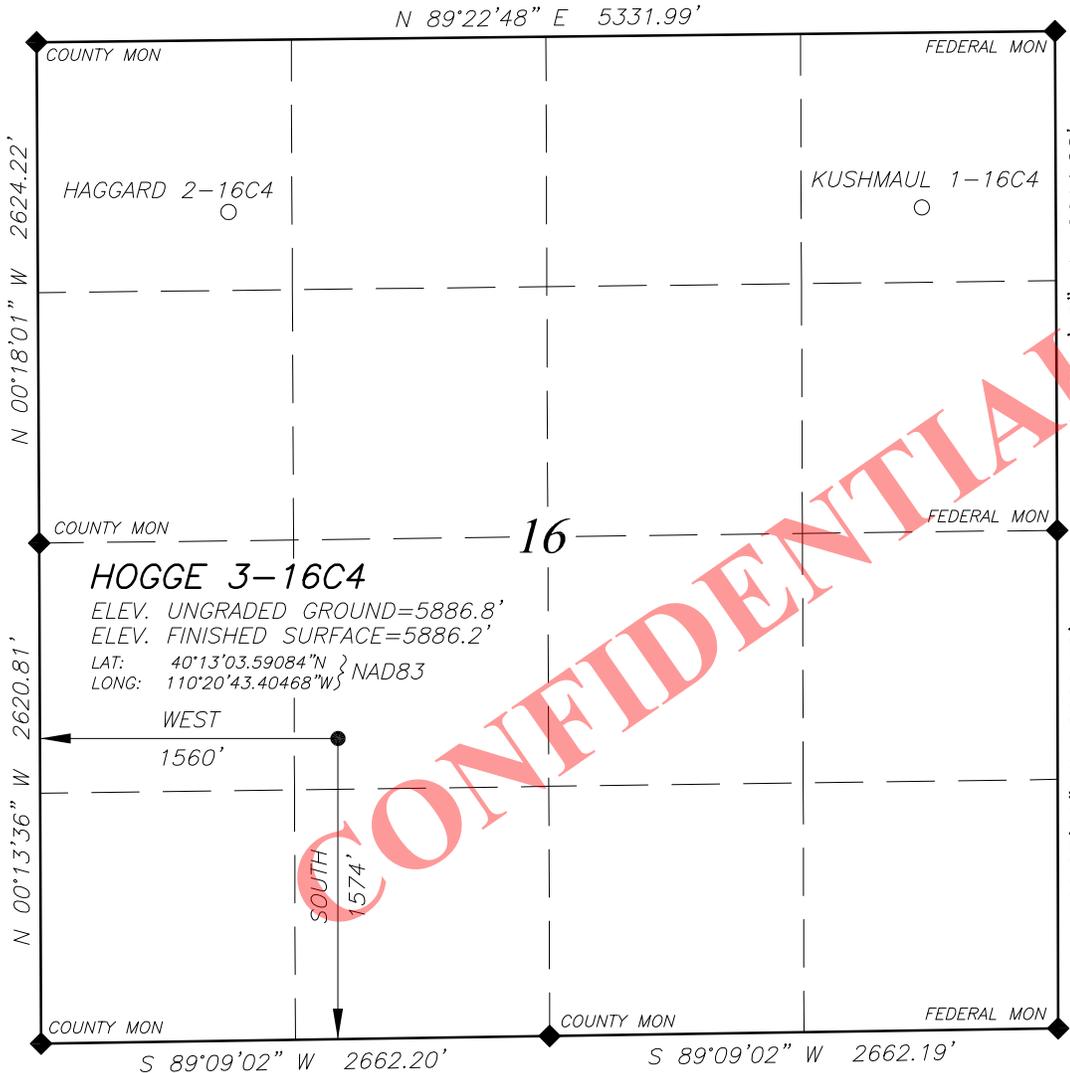
10000-15000-20000 psi System



EP ENERGY E&P COMPANY, L.P.

WELL LOCATION HOGGE 3-16C4

LOCATED IN THE NE¼ OF THE SW¼ OF SECTION 16, T3S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH



SCALE: 1" = 1000'



NOTE:
 NAD27 VALUES FOR
 WELL POSITION:
 LAT: 40.21770695° N
 LONG: 110.3446795° W

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.

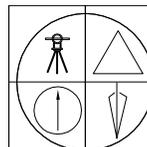
LEGEND AND NOTES

- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY
- THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP
- THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
- THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A SECTION CORNER LOCATED AT LAT. 40°15'22.90258"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM



JERRY D. ALLRED, REGISTERED LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)

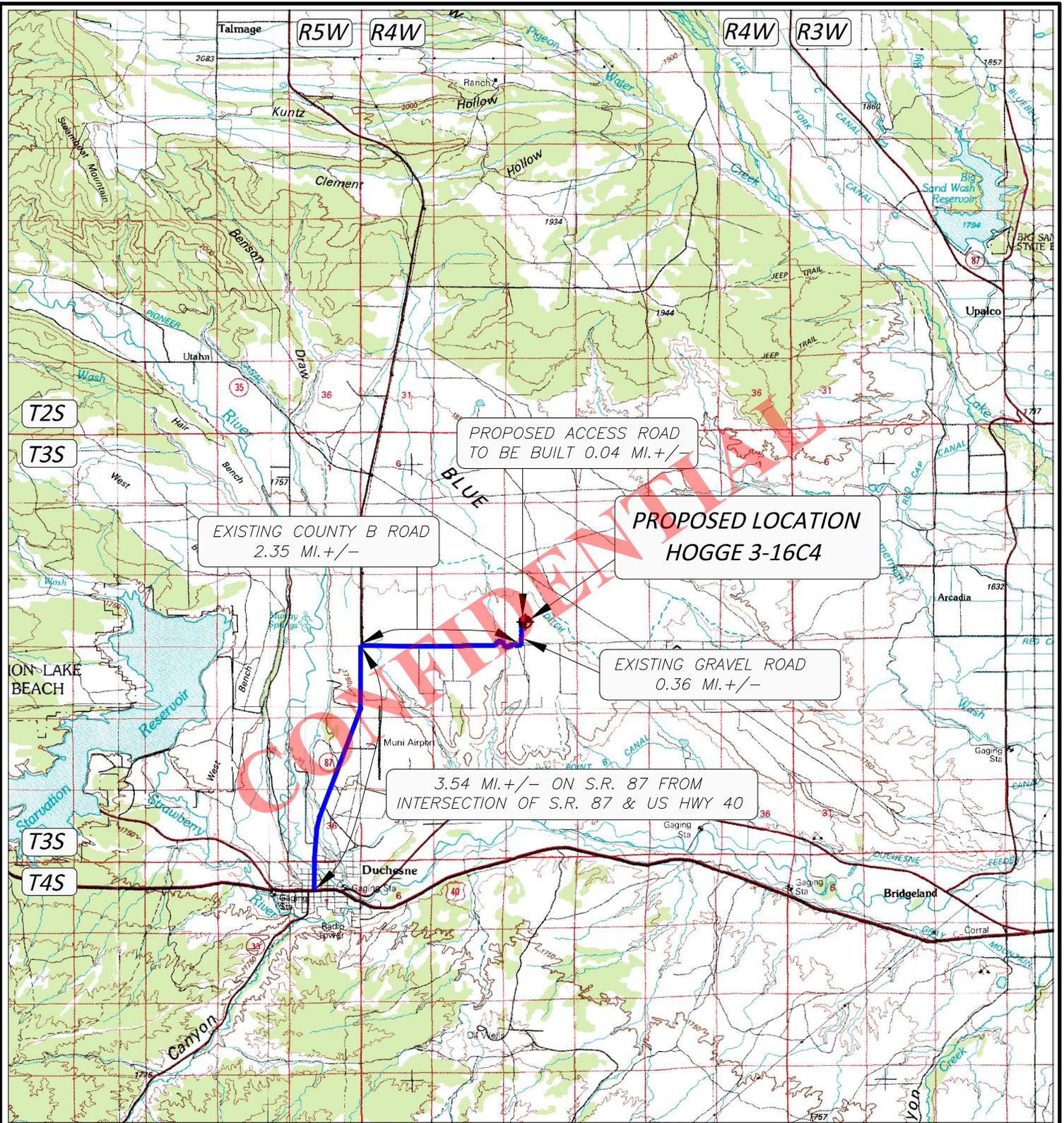


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 SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
 DUCHESNE, UTAH 84021
 (435) 738-5352

27 AUG 2013 01-128-415

RECEIVED: January 16, 2014



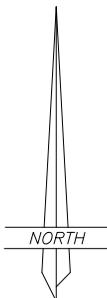
LEGEND:

◆ PROPOSED WELL LOCATION

01-128-415

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHEсне, UTAH 84021
(435) 738-5352



EP ENERGY E&P COMPANY, L.P.

HOGGE 3-16C4

SECTION 16, T3S, R4W, U.S.B.&M.

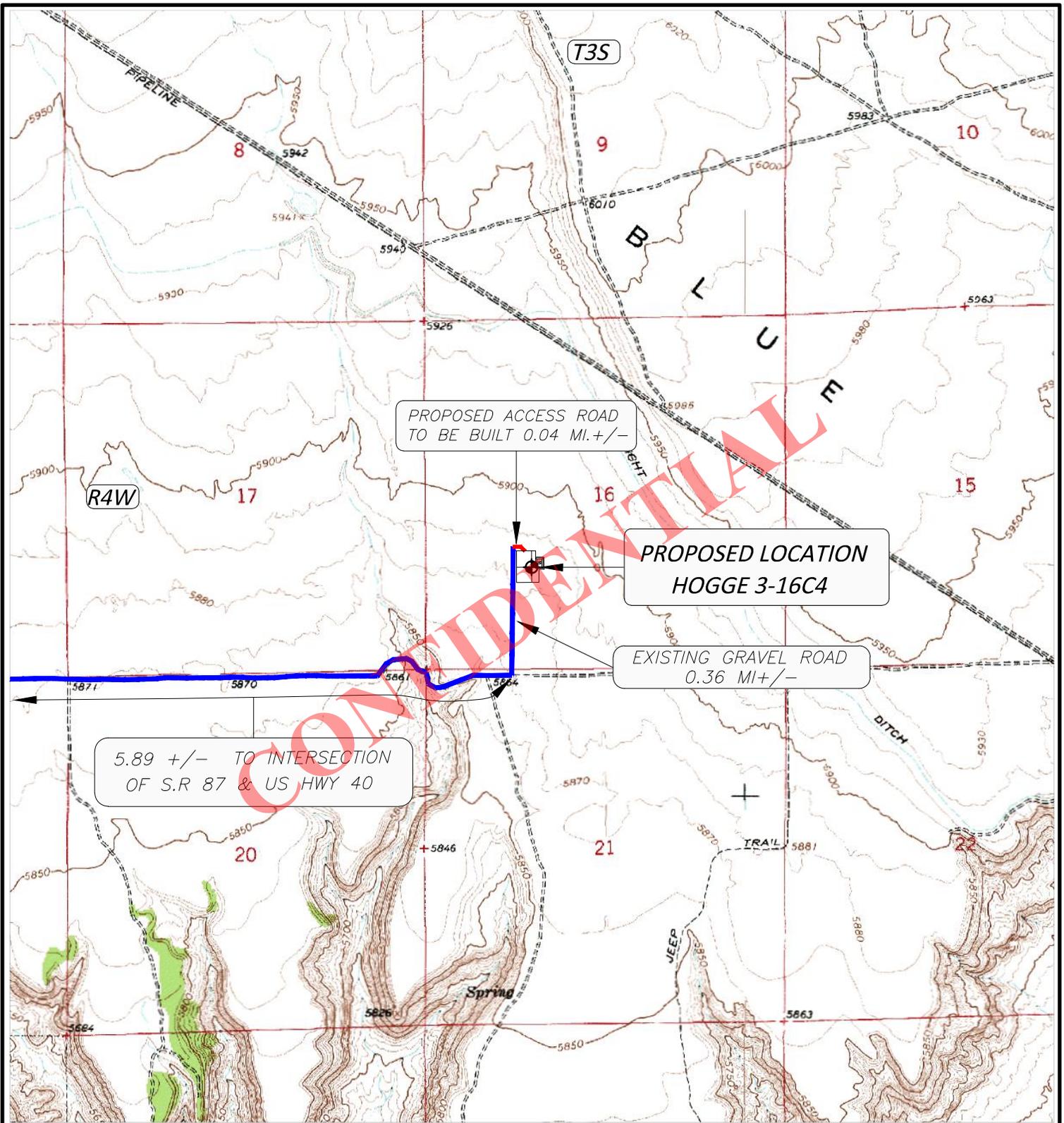
1574' FSL 1560' FWL

TOPOGRAPHIC MAP "A"

SCALE; 1"=10,000'

3 SEP 2013

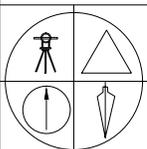
RECEIVED: January 16, 2014



LEGEND:

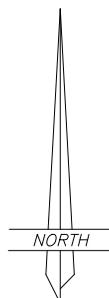
-  PROPOSED WELL LOCATION
-  PROPOSED ACCESS ROAD
-  EXISTING GRAVEL ROAD
-  EXISTING DIRT ROAD

01-128-415



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESE, UTAH 84021
(435) 738-5352



EP ENERGY E&P COMPANY, L.P.

HOGGE 3-16C4

SECTION 16, T3S, R4W, U.S.B.&M.

1574' FSL 1560' FWL

TOPOGRAPHIC MAP "B"

SCALE; 1"=2000'
3 SEP 2013

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE

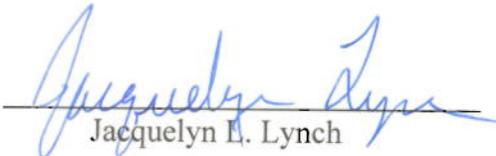
Jacquelyn L. Lynch personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Jacquelyn L. Lynch. I am a Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana St., Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Hogge 3-16C4 well (the "Well") to be located in the NE/4SW/4 of Section 16, Township 3 South, Range 4 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owners of the North part of the Drillsite Location are Frank M. Carozza and Stephen McLaughlin (deceased). The Surface Owners of the South part of the location are Kim N. Hogge & Luann Hogge, and Joseph G. Severson & Sandra L. Severson. We have settled damages with all surface owners, except Stephen McLaughlin, who is deceased. Stephen McLaughlin and Frank Carozza are tenants in common with equal rights to use and convey the property, although we continue to try to locate and then settle damages with Mr. McLaughlin's heirs, we believe the damage settlement with Mr. Carozza is sufficient to grant us access to build and drill on the Drillsite Location. The address and contact information of the surface owners (the "Surface Owners") is as follows:

- **Frank M. Carozza**
3165 Bel Air Dr
Las Vegas, NV
(702) 860-2157
- **Kim N. & Luann Hogge and Joseph G. & Sandra L. Severson**
5222 Queensroad Drive
Salt Lake City, UT 84118
(801) 679-0705 - Hogges
(435) 722-2392 - Seversons

3. EP Energy and the Surface Owners have entered into a Damage Settlement and Release Agreement dated September 12, 2013 and December 19, 2013, to cover any and all injuries or damages of every character and description sustained by the Surface Owners or Surface Owners' property as a result of operations associated with the drilling of the Well.

FURTHER AFFIANT SAYETH NOT.


 Jacquelyn L. Lynch

ACKNOWLEDGMENT

STATE OF TEXAS §
 §
 COUNTY OF HARRIS §

Sworn to and subscribed before me on this 26th day of December, 2013, by Jacquelyn L. Lynch, as Landman for EP Energy E&P Company, L.P., a Delaware limited partnership.


 NOTARY PUBLIC

My Commission Expires:



EP Energy E&P Company, L.P.

Related Surface Information

1. **Current Surface Use:**

- Livestock Grazing and Oil and Gas Production.

2. **Proposed Surface Disturbance:**

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately .04 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. **Location Of Existing Wells:**

- Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. **Location And Type Of Drilling Water Supply:**

- Drilling water: Duchesne City Water

5. **Existing/Proposed Facilities For Productive Well:**

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .04 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. **Construction Materials:**

- Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. **Methods For Handling Waste Disposal:**

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be placed in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. **Ancillary Facilities:**

- There will be no ancillary facilities associated with this project.

9. Surface Reclamation Plans:

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15th, and prior to ground frost, or seed will be planted after the frost has left and before May 15th. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
 1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
 2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
 3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
 1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
 2. Landowner will be contacted for rehabilitation requirements.

10. Surface Ownership:

Frank M. Carozza
3165 Bel Air Dr
Las Vegas, NV
702-860-2157

Kim N. & Luann Hogge and Joseph G. & Sandra L. Severson
5222 Queensroad Drive
Salt Lake City, UT 84118
435-722-2392 (Seversons)

Other Information:

- The surface soil consists of clay, and silt.
- Flora – vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna – antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses – Livestock grazing and mineral exploration and production.

• **Operator and Contact Persons:**

Construction and Reclamation:

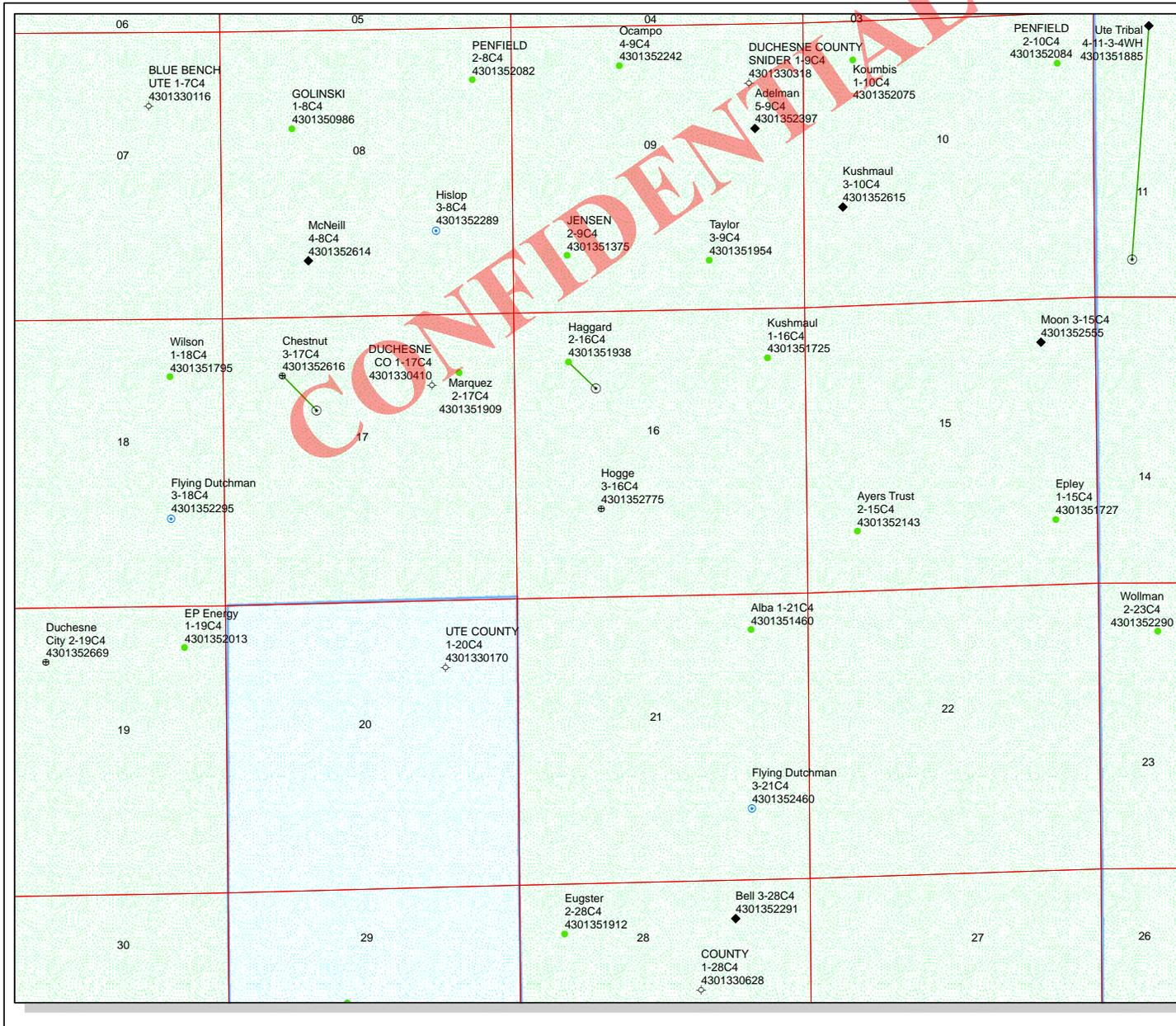
EP Energy E&P Company, L.P.
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

Regarding This APD

EP Energy E&P Company, L.P.
Maria S. Gomez
1001 Louisiana, Rm 2730D
Houston, Texas 77002
713-997-5038 – Office

Drilling

EP Energy E&P Company, L.P.
Brad MacAfee – Drilling Engineer
1001 Louisiana, Rm 2660D
Houston, Texas 77002
713-997-6383 – office
281-813-0902 – Cell



API Number: 4301352775

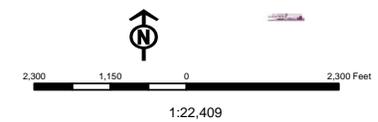
Well Name: Hogge 3-16C4

Township: T03.0S Range: R04.0W Section: 16 Meridian: U

Operator: EP ENERGY E&P COMPANY, L.P.

Map Prepared: 1/16/2014
Map Produced by Diana Mason

Wells Query		Units	
	APD - Approved Permit		ACTIVE
	DRL - Spudded (Drilling Commenced)		EXPLORATORY
	GIW - Gas Injection		GAS STORAGE
	GS - Gas Storage		NF PP OIL
	LOC - New Location		NF SECONDARY
	OPS - Operation Suspended		PI OIL
	PA - Plugged Abandoned		PP GAS
	PGW - Producing Gas Well		PP GEOTHERML
	POW - Producing Oil Well		PP OIL
	SGW - Shut-in Gas Well		SECONDARY
	SOW - Shut-in Oil Well		TERMINATED
	TA - Temp. Abandoned	Fields	
	TW - Test Well		Unknown
	WDW - Water Disposal		ABANDONED
	WW - Water Injection Well		ACTIVE
	WSW - Water Supply Well		COMBINED
			INACTIVE
			STORAGE
			TERMINATED



Well Name	EP ENERGY E&P COMPANY, L.P. Hogge 3-16C4 43013527750000			
String	Cond	Surf	I1	L1
Casing Size(")	13.375	9.625	7.000	5.000
Setting Depth (TVD)	600	2000	7466	11900
Previous Shoe Setting Depth (TVD)	0	600	2000	7466
Max Mud Weight (ppg)	8.8	9.2	10.5	12.7
BOPE Proposed (psi)	1000	1000	10000	10000
Casing Internal Yield (psi)	2730	5750	11220	13940
Operators Max Anticipated Pressure (psi)	7859			12.7

Calculations	Cond String	13.375	"	
Max BHP (psi)	.052*Setting Depth*MW=	275		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	203	YES	4.5 x 20 rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	143	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	143	NO	OK
Required Casing/BOPE Test Pressure=		600	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

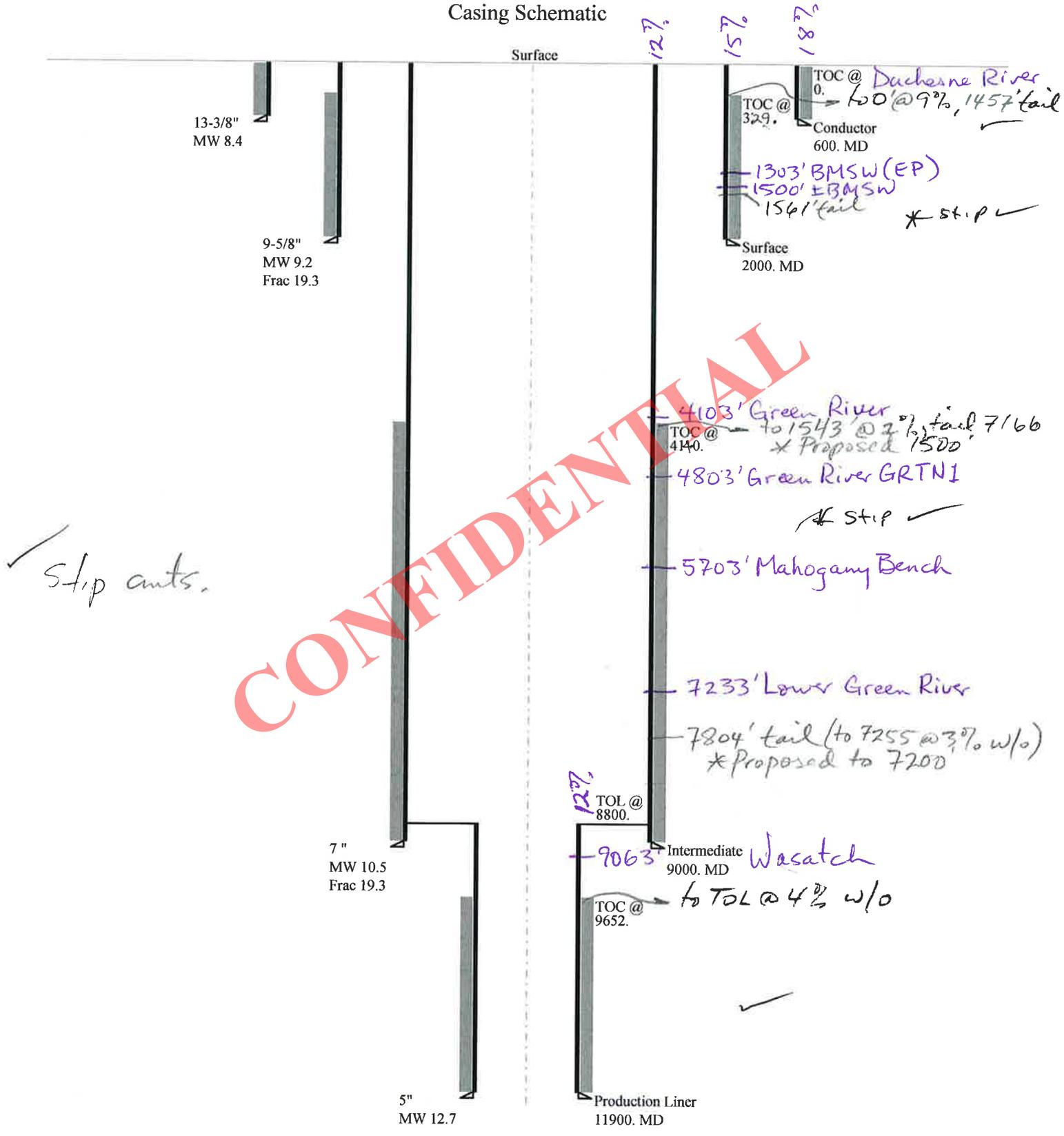
Calculations	Surf String	9.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	957		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	717	YES	4.5 x 13 3/8 rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	517	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	649	NO	OK
Required Casing/BOPE Test Pressure=		2000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		600	psi *Assumes 1psi/ft frac gradient	

Calculations	I1 String	7.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	4076		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3180	YES	10 M BOPE w/rotating head, 5M annular, blind rams, mud
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2433	YES	cross
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2873	NO	OK
Required Casing/BOPE Test Pressure=		7466	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		2000	psi *Assumes 1psi/ft frac gradient	

Calculations	L1 String	5.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	7859		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	6431	YES	10 M BOPE w/rotating head, 5M annular, blind rams, mud
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	5241	YES	cross
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	6884	YES	OK
Required Casing/BOPE Test Pressure=		9758	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		7466	psi *Assumes 1psi/ft frac gradient	

43013527750000 Hogge 3-16C4

Casing Schematic



CONFIDENTIAL

Well name:	43013527750000 Hogge 3-16C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Conductor	Project ID: 43-013-52775
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 82 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 190 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 262 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.
Neutral point: 525 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	600	13.375	54.50	J-55	ST&C	600	600	12.49	7441
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	262	1130	4.318	262	2730	10.43	28.6	514	17.96 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: March 17, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 600 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43013527750000 Hogge 3-16C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Surface	Project ID: 43-013-52775
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 9.200 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 102 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft
Cement top: 329 ft

Burst

Max anticipated surface pressure: 1,760 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,000 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,726 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 9,000 ft
Next mud weight: 10.500 ppg
Next setting BHP: 4,909 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,000 ft
Injection pressure: 2,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2000	9.625	40.00	N-80	LT&C	2000	2000	8.75	25448
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	956	3090	3.233	2000	5750	2.88	69	737	10.67 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: April 2, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2000 ft, a mud weight of 9.2 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013527750000 Hogge 3-16C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Intermediate	Project ID: 43-013-52775
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 10.500 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 5,233 psi
Internal gradient: 0.220 psi/ft
Calculated BHP: 7,213 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on buoyed weight.
Neutral point: 7,570 ft

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 200 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 4,140 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 11,900 ft
Next mud weight: 12.700 ppg
Next setting BHP: 7,851 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 9,000 ft
Injection pressure: 9,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9000	7	29.00	HCP-110	LT&C	9000	9000	6.059	101631
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4909	9200	1.874	7213	11220	1.56	219.5	797	3.63 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: April 2, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9000 ft, a mud weight of 10.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013527750000 Hogge 3-16C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Production Liner	Project ID: 43-013-52775
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 12.700 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 241 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 9,652 ft

Liner top: 8,800 ft

Non-directional string.

Burst

Max anticipated surface pressure: 5,233 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 7,851 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on buoyed weight.

Neutral point: 11,301 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3100	5	18.00	HCP-110	ST-L	11900	11900	4.151	245520
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	7851	15360	1.956	7851	13940	1.78	45	341	7.58 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: March 17, 2014
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 11900 ft, a mud weight of 12.7 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name Hogge 3-16C4
API Number 43013527750000 **APD No** 9266 **Field/Unit** ALTAMONT
Location: 1/4,1/4 NESW **Sec** 16 **Tw** 3.0S **Rng** 4.0W 1574 FSL 1560 FWL
GPS Coord (UTM) 555698 4452122 **Surface Owner** Frank M Carozza

Participants

Kelsy Carter and Jay Van tassel (Landmen for EP Energy); Jared Thacker (EP Energy); Dennis Ingram (DOGM)

Regional/Local Setting & Topography

The Hogge 3-16C4 well site has been proposed in northeastern Utah, approximately 3.54 miles north of Duchesne on US 87, then east along a county road for another 2.35 miles, then north for 0.36 miles and east into site. Regionally this well pad sets at the southern end of Blue Bench some three miles north of the Duchesne River Valley; the Duchesne corridor also runs south to the west of this site 3.5 miles to the west. To the north and east Blue Bench is open grasslands with sagebrush where undisturbed. The topography at the well site slopes gently to the south showing a three to five foot drop from the north side of the pad.

Surface Use Plan

Current Surface Use

Wildlfe Habitat
Residential

New Road Miles

0.04

Well Pad

Width 392 **Length** 465

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Rabbit brush & weeds; potential mule deer, coyote, rabbit prairie dog, field mice and other smaller mammals, hawk, eagle or owl potential but no roosting or perch opportunities for miles.

Soil Type and Characteristics

Reddish brown, fine-grained sands

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N**Berm Required? Y****Erosion Sedimentation Control Required? N****Paleo Survey Run? N Paleo Potential Observed? N Cultural Survey Run? N Cultural Resources? N****Reserve Pit****Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score		25 1 Sensitivity Level

Characteristics / Requirements

Reserve pit proposed off the east side of the location in cut, measuring 110' wide by 150' long by 12' deep and downwind of the wellhead

Closed Loop Mud Required? Liner Required? Y Liner Thickness 20 Pit Underlayment Required?**Other Observations / Comments**

Surface slopes south, no wash or drainage issues, landowners invited but did not attend.

Dennis Ingram
Evaluator

2/5/2014
Date / Time

**Application for Permit to Drill
Statement of Basis
Utah Division of Oil, Gas and Mining**

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
9266	43013527750000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Frank M Carozza	
Well Name	Hogge 3-16C4		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NESW 16 3S 4W U 1574 FSL 1560 FWL GPS Coord (UTM) 555699E 4452141N				

Geologic Statement of Basis

El Paso proposes to set 600 feet of conductor and 2,000 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 1,500 feet. A search of Division of Water Rights records indicates that there are 4 water wells within a 10,000 foot radius of the center of Section 16. These wells probably produce water from the Duchesne River Formation. Depths of the wells fall in the range of 285-300 feet. The wells are listed as being used for irrigation, stock watering and domestic. The proposed drilling, casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill
APD Evaluator

3/4/2014
Date / Time

Surface Statement of Basis

Surface at well site is open rangeland type habitat that slopes gently to the south and does not have any drainage issues. A reserve pit has been proposed by the operator immediately off the east side of the location, which is in cut and downwind of the wellbore. The operator shall install a 20 mil synthetic liner into a smooth pit bottom to prevent migration of drilling fluids into sandy soils. The location shall also be bermed to prevent drilling or production fluids from leaving the well site. There weren't any other issues noted or addressed at the presite meeting.

A presite investigation scheduled and performed on February 9, 2014 to take input and address issues regarding the construction and drilling of the Hogge 3-16C4. Two separate landowners were shown as owning a portion of the well pad and were both invited by telephone to participate in the well site visit. EP Energy has submitted proof to the Division that they and the landowners have entered into a landowner agreement.

Dennis Ingram
Onsite Evaluator

2/5/2014
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the east side of the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 1/16/2014

API NO. ASSIGNED: 43013527750000

WELL NAME: Hogge 3-16C4

OPERATOR: EP ENERGY E&P COMPANY, L.P. (N3850)

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NESW 16 030S 040W

Permit Tech Review:

SURFACE: 1574 FSL 1560 FWL

Engineering Review:

BOTTOM: 1574 FSL 1560 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.21784

LONGITUDE: -110.34540

UTM SURF EASTINGS: 555699.00

NORTHINGS: 4452141.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE - 400JU0708
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: Duchesne City
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 139-90
- Effective Date: 5/9/2012
- Siting: 4 Wells Per 640 Acre
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhll
8 - Cement to Surface -- 2 strings - hmacdonald
12 - Cement Volume (3) - ddoucet



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Hogge 3-16C4
API Well Number: 43013527750000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 4/3/2014

Issued to:

EP ENERGY E&P COMPANY, L.P., 1001 Louisiana, Houston, TX 77002

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-90. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface. The tail cement on the 9 5/8" surface casing shall be brought to above the BMSW.

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place lead cement from the pipe setting depth back to 1500' MD and tail cement to 500 feet above the Lower Green River as indicated in the submitted drilling plan.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and

mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

Approved by:

A handwritten signature in black ink, appearing to read "J. Rogers", written in a cursive style.

For John Rogers
Associate Director, Oil & Gas



Alexis Huefner <alexishuefner@utah.gov>

SPUD NOTICE FOR 20" CONDUCTOR HOGGE 3-16C4

1 message

RLANDRIG008 <RLANDRIG008@epenergy.com>

Mon, Apr 21, 2014 at 2:52 PM

To: Alexis Huefner <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, Carol Daniels <caroldaniels@utah.org>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, Maria Gomes <Maria.Gomes@epenergy.com>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>

THIS IS NOTICE OF INITIAL SPUDGING 20" CONDUCTOR ON THE FOLLOWING WELL.

HOGGE 3-16C4 4301352775

RIG : LEON ROSS BUCKET RIG # 35.

SPUD WAS 07:00 HRS 04/18/14.

1574 FSL 1560 FWL
NESW 16 3S 4W

CONFIDENTIAL

LLOYD ROWELL / CHAD SURBER

EP ENERGY / PD 404

713-997-1290 (RIG)

435-823-1725 (CELL)

THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE SOLE USE OF THE INTENDED RECIPIENT. ANY REVIEW, USE, DISTRIBUTION OR DISCLOSURE BY OTHERS IS STRICTLY PROHIBITED. IF YOU ARE NOT THE INTENDED RECIPIENT, OR AUTHORIZED TO RECEIVE THE INFORMATION FROM THE RECIPIENT, PLEASE NOTIFY THE SENDER BY REPLY E-MAIL AND DELETE ALL COPIES OF THIS MESSAGE.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	8. WELL NAME and NUMBER: Hogge 3-16C4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1574 FSL 1560 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 16 Township: 03.0S Range: 04.0W Meridian: U	9. API NUMBER: 43013527750000
PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/13/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Initial Completion"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EP plans to initially complete in the Wasatch. Please see attached for details.

**Approved by the
Utah Division of
Oil, Gas and Mining
June 17, 2014**

Date: _____
By: DeKQ

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 6/10/2014	

Hogge 3-16 C4

Initial Completion

API # : 43013527750000

The following precautions will be taken until the RCA for the Conover is completed:

1. Review torque turning and running of the 7" and 5" liner of anomalies.
2. Test and chart casing for 30 minutes, noting pressure if any on surface casing.
3. Test all lubricators, valves and BOP's to working pressure.
4. Wellhead isolation tools will continue to be used to isolate the wellhead during the frac.
5. Monitor the surface casing during frac:
 - a. Lay a flowline to the flow back tank and keep the valve open.
 - b. This line will remain in place until a wire line set retrievable packer is in place isolating the 5" casing from the 7" after the frac.
6. 2 7/8" tubing will be run to isolate the 7" casing during the flow back of the well.
7. Well pressure and annulus pressure would be monitored during this time until the well is ready for pump.

Completion Information (Wasatch Formation)

- | | |
|-----------------|--|
| Stage #1 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11159' – 11424' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~140000 # of Power Prop 20/40. Total clean water volume is 120178 gals. |
| Stage #2 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10780' – 11086' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~140000 # of Power Prop 20/40. Total clean water volume is 119612 gals. |
| Stage #3 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10451' – 10748' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 20/40. Total clean water volume is 124738 gals. |
| Stage #4 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10171' – 10421' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~140000 # of TLC 30/50. Total clean water volume is 121228 gals. |
| Stage #5 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9895' – 10136' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~140000 # of TLC 30/50. Total clean water volume is 120817 gals. |

Stage #6 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9596' – 9841' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~120000 # of TLC 30/50. Total clean water volume is 106137 gals.

Stage #7 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9312' – 9570' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~120000 # of TLC 30/50. Total clean water volume is 105714 gals.

Stimulation Summary

	Top Perf	Btm. Perf	Gross Interval	Plug Depth	Net Perf Length	Total Shots	Perf Intervals	Type of Prop	Lbs of Prop	Lbs/ft	Lbs of 100 Mesh	Gals of HCL (15%)	Gals of Clean H2O	Gals of Slurry
Stage #1	11,159	11,424	265	NA	17	51	13	Power Prop 20/40	140,000	528	3,000	5,000	120,178	131,884
Stage #2	10,780	11,086	306	11,096	23	69	17	Power Prop 20/40	140,000	458	3,000	5,000	119,612	131,319
Stage #3	10,451	10,748	297	10,758	22	66	17	Power Prop 20/40	150,000	505	3,000	5,000	124,738	136,914
Stage #4	10,171	10,421	250	10,431	23	69	16	TLC 30/50	140,000	560	3,000	5,000	121,228	163,018
Stage #5	9,895	10,136	241	10,146	22	66	15	TLC 30/50	140,000	581	3,000	5,000	120,817	162,812
Stage #6	9,596	9,841	245	9,851	23	69	17	TLC 30/50	120,000	490	3,000	5,000	106,137	143,990
Stage #7	9,312	9,570	258	9,580	23	69	17	TLC 30/50	120,000	465	3,000	5,000	105,714	143,779
Average per Stage			266		22	66	16		135,714	512	3,000	5,000	116,918	144,817
Totals per Well			1,862		153	459	112		950,000		21,000	35,000	818,424	1,013,716

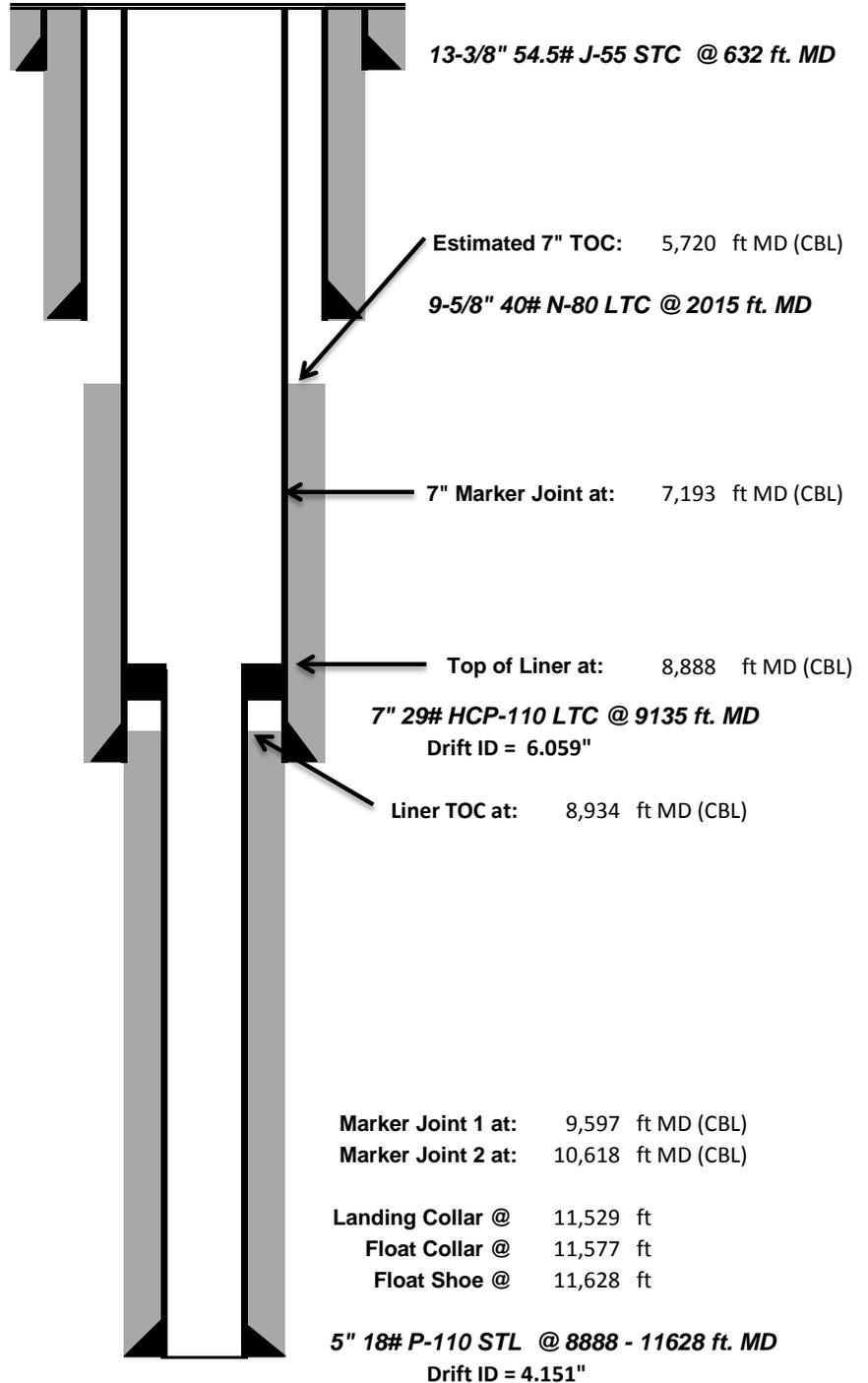


Pre-Completion Wellbore Schematic

Well Name: **Hogge 3-16 C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne County, Utah**
 Surface Location: **Lat: 40°13'03.59084" N Long: 110°20'43.40468" W**
 Producing Zone(s): **Green River / Wasatch**

Last Updated: **6/9/2014**
 By: **Mohammad Siddiqui**
 TD: **11,628**
 API: **43013527750000**
 AFE: **161148**

8.43 ppg KCL substitute (Clay Webb Water) water in the wellbore



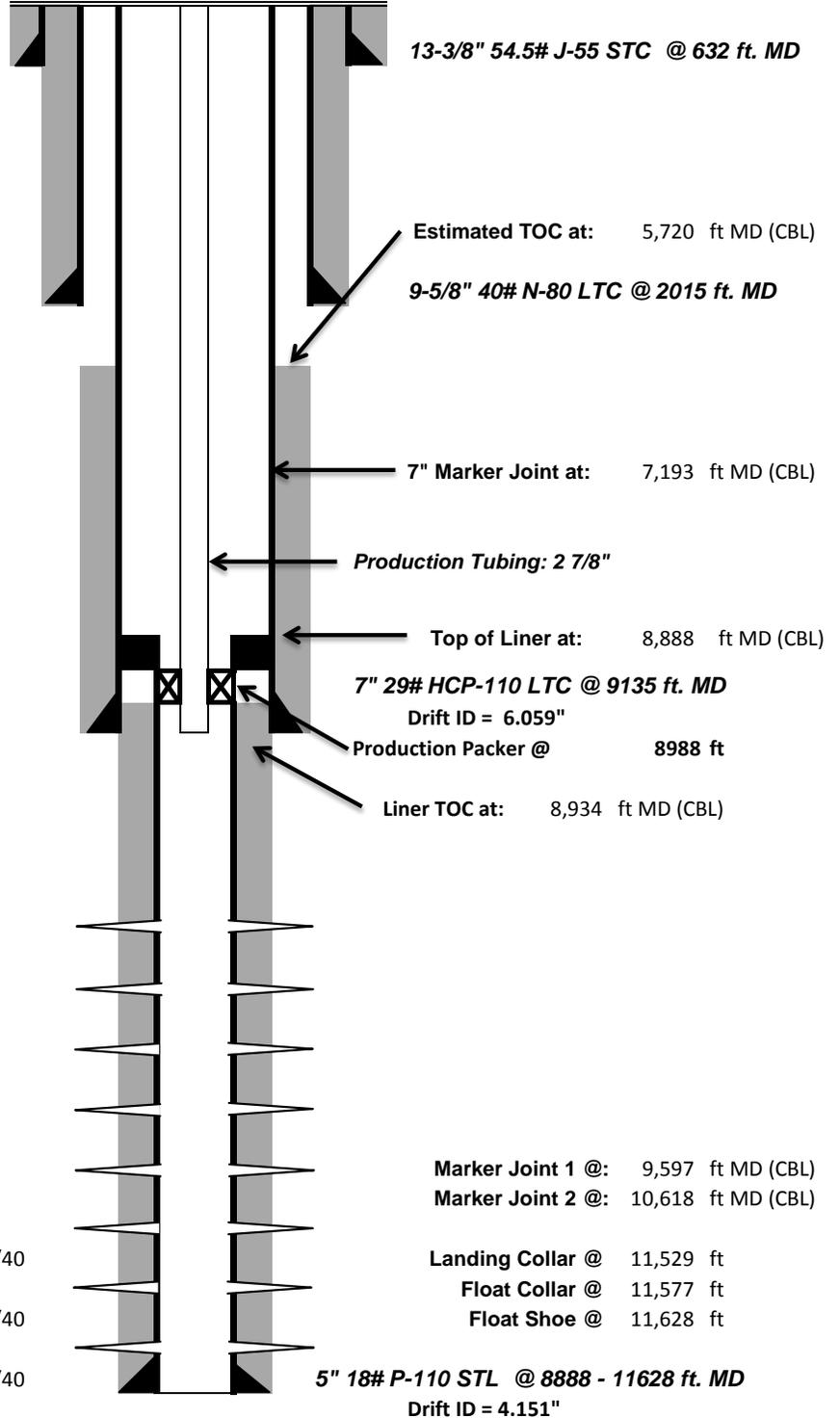


Post-Completion Wellbore Schematic

Well Name: **Hogge 3-16 C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne County, Utah**
 Surface Location: **Lat: 40°13'03.59084" N Long: 110°20'43.40468" W**
 Producing Zone(s): **Green River / Wasatch**

Last Updated: **6/9/2014**
 By: **Mohammad Siddiqui**
 TD: **11,628**
 API: **43013527750000**
 AFE: **161148**

8.43 ppg KCL substitute (Clay Webb Water) water in the wellbore



Initial Completion Perf Information

- Stage #7** 9312 - 9570 23' /69 shots
5000 gal HCL & 120000 lbs TLC 30/50
- Stage #6** 9596 - 9841 23' /69 shots
5000 gal HCL & 120000 lbs TLC 30/50
- Stage #5** 9895 - 10136 22' /66 shots
5000 gal HCL & 140000 lbs TLC 30/50
- Stage #4** 10171 - 10421 23' /69 shots
5000 gal HCL & 140000 lbs TLC 30/50
- Stage #3** 10451 - 10748 22' /66 shots
5000 gal HCL & 150000 lbs Power Prop 20/40
- Stage #2** 10780 - 11086 23' /69 shots
5000 gal HCL & 140000 lbs Power Prop 20/40
- Stage #1** 11159 - 11424 17' /51 shots
5000 gal HCL & 140000 lbs Power Prop 20/40

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

12. COUNTY

13. STATE

UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

2. NAME OF OPERATOR:

3. ADDRESS OF OPERATOR: CITY _____ STATE _____ ZIP _____ PHONE NUMBER: _____

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

14. DATE SPUDDED: _____ 15. DATE T.D. REACHED: _____ 16. DATE COMPLETED: _____ ABANDONED READY TO PRODUCE 17. ELEVATIONS (DF, RKB, RT, GL): _____

18. TOTAL DEPTH: MD _____ TVD _____ 19. PLUG BACK T.D.: MD _____ TVD _____ 20. IF MULTIPLE COMPLETIONS, HOW MANY? * _____ 21. DEPTH BRIDGE PLUG SET: MD _____ TVD _____

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) _____ 23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. See attached for further information on #27 & #28.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS: All logs are submitted to UDOGM by vendor.

- ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) _____ TITLE _____

SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

- completing or plugging a new well
- reentering a previously plugged and abandoned well
- drilling horizontal laterals from an existing well bore
- significantly deepening an existing well bore below the previous bottom-hole depth
- recompleting to a different producing formation
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Attachment to Well Completion Report**Form 8 Dated July 19, 2014****Well Name: Hogge 3-16C4****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
9890'-10132'	.43	69	Open
9592'-9837'	.43	69	Open
9306'-9566'	.43	69	Open

28. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
10157'-10418'	5000 gal acid, 3000# 100 mesh, 139900# 30/50 TLC
9890'-10132'	5000 gal acid, 3000# 100 mesh, 140500# 30/50 TLC
9592'-9837'	5000 gal acid, 3000# 100 mesh, 119700# 30/50 TLC
9306'-9566'	5000 gal acid, 3000# 100 mesh, 120140# 30/50 TLC



Company: EP Energy
Well: Hogge 3-16C4
Location: Duchesne, UT
Rig: Precision 404

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
MWD Eng: _____

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
Tie In	0.00	0.00	0.00												
1	100.00	0.20	15.34	100.00	100.00	0.16	0.16	N	0.05	E	0.17	15.34	0.20	0.20	15.34
2	200.00	0.09	31.19	100.00	200.00	0.40	0.40	N	0.13	E	0.42	18.33	0.11	-0.10	15.85
3	300.00	0.06	242.95	100.00	300.00	0.45	0.45	N	0.13	E	0.46	16.30	0.14	-0.04	211.76
4	400.00	0.18	253.79	100.00	400.00	0.38	0.38	N	0.06	W	0.38	351.03	0.12	0.12	10.85
5	500.00	0.34	214.63	100.00	500.00	0.09	0.09	N	0.37	W	0.39	284.22	0.23	0.16	-39.16
6	600.00	0.28	226.61	100.00	600.00	-0.32	0.32	S	0.72	W	0.78	246.33	0.09	-0.06	11.97
7	700.00	0.37	216.99	100.00	699.99	-0.74	0.74	S	1.09	W	1.32	235.79	0.11	0.09	-9.62
8	800.00	0.53	227.89	100.00	799.99	-1.31	1.31	S	1.63	W	2.09	231.18	0.18	0.16	10.90
9	900.00	0.55	246.24	100.00	899.99	-1.81	1.81	S	2.41	W	3.02	233.02	0.17	0.02	18.36
10	1000.00	0.46	235.02	100.00	999.98	-2.24	2.24	S	3.18	W	3.88	234.84	0.13	-0.09	-11.22
11	1100.00	0.65	236.95	100.00	1099.98	-2.78	2.78	S	3.98	W	4.85	235.10	0.19	0.19	1.93
12	1200.00	0.53	242.10	100.00	1199.97	-3.30	3.30	S	4.87	W	5.88	235.83	0.13	-0.12	5.15
13	1300.00	0.43	237.53	100.00	1299.97	-3.72	3.72	S	5.59	W	6.72	236.36	0.11	-0.10	-4.57
14	1400.00	0.35	231.34	100.00	1399.97	-4.11	4.11	S	6.15	W	7.40	236.21	0.10	-0.09	-6.19
15	1500.00	0.38	273.54	100.00	1499.97	-4.28	4.28	S	6.72	W	7.97	237.49	0.26	0.04	42.20
16	1600.00	0.41	233.84	100.00	1599.96	-4.47	4.47	S	7.34	W	8.60	238.64	0.27	0.03	-39.70
17	1700.00	0.31	245.65	100.00	1699.96	-4.80	4.80	S	7.88	W	9.23	238.66	0.12	-0.10	11.81
18	1800.00	0.53	260.60	100.00	1799.96	-4.99	4.99	S	8.59	W	9.93	239.85	0.24	0.22	14.95
19	1900.00	0.72	253.62	100.00	1899.95	-5.24	5.24	S	9.64	W	10.97	241.48	0.20	0.19	-6.98
20	1983.00	0.59	243.17	83.00	1982.95	-5.58	5.58	S	10.52	W	11.91	242.07	0.21	-0.15	-12.59
21	2107.00	0.72	219.51	124.00	2106.94	-6.47	6.47	S	11.58	W	13.27	240.83	0.24	0.11	-19.08
22	2199.00	1.43	26.63	92.00	2198.93	-5.89	5.89	S	11.44	W	12.86	242.77	2.32	0.77	-209.65
23	2293.00	0.89	37.38	94.00	2292.91	-4.26	4.26	S	10.47	W	11.30	247.87	0.62	-0.57	11.44
24	2386.00	0.84	27.48	93.00	2385.90	-3.08	3.08	S	9.72	W	10.19	252.42	0.17	-0.05	-10.65
25	2479.00	0.48	24.55	93.00	2478.90	-2.12	2.12	S	9.24	W	9.48	257.08	0.39	-0.39	-3.15
26	2572.00	0.28	321.10	93.00	2571.89	-1.59	1.59	S	9.22	W	9.36	260.23	0.47	-0.22	318.87
27	2635.00	0.26	274.32	63.00	2634.89	-1.46	1.46	S	9.46	W	9.57	261.24	0.34	-0.03	-74.25
28	2728.00	0.72	258.50	93.00	2727.89	-1.56	1.56	S	10.24	W	10.36	261.35	0.51	0.49	-17.01
29	2821.00	0.87	249.30	93.00	2820.88	-1.92	1.92	S	11.48	W	11.64	260.48	0.21	0.16	-9.89
30	2915.00	0.88	293.56	94.00	2914.87	-1.89	1.89	S	12.80	W	12.94	261.61	0.70	0.01	47.09
31	3008.00	1.06	355.33	93.00	3007.86	-0.75	0.75	S	13.53	W	13.55	266.85	1.08	0.19	66.42
32	3101.00	0.67	347.58	93.00	3100.85	0.64	0.64	N	13.72	W	13.73	272.68	0.44	-0.42	-8.33
33	3194.00	0.42	294.93	93.00	3193.84	1.32	1.32	N	14.14	W	14.20	275.32	0.57	-0.27	-56.61
34	3287.00	0.51	252.64	93.00	3286.84	1.34	1.34	N	14.85	W	14.91	275.15	0.37	0.10	-45.47
35	3380.00	0.61	206.24	93.00	3379.84	0.77	0.77	N	15.46	W	15.48	272.85	0.48	0.11	-49.89



Company: EP Energy
Well: Hogge 3-16C4
Location: Duchesne, UT
Rig: Precision 404

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
MWD Eng: _____

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
36	3474.00	1.03	222.45	94.00	3473.83	-0.30	0.30	S	16.25	W	16.25	268.94	0.51	0.45	17.24
37	3567.00	1.19	209.76	93.00	3566.81	-1.76	1.76	S	17.30	W	17.38	264.20	0.31	0.17	-13.65
38	3660.00	0.67	14.03	93.00	3659.81	-2.07	2.07	S	17.64	W	17.76	263.32	1.98	-0.56	-210.46
39	3753.00	0.42	158.16	93.00	3752.80	-1.86	1.86	S	17.38	W	17.48	263.90	1.12	-0.27	154.98
40	3846.00	0.53	179.16	93.00	3845.80	-2.60	2.60	S	17.25	W	17.45	261.42	0.22	0.12	22.58
41	3940.00	0.56	189.83	94.00	3939.80	-3.49	3.49	S	17.32	W	17.67	258.61	0.11	0.03	11.35
42	4033.00	0.94	196.08	93.00	4032.79	-4.67	4.67	S	17.61	W	18.22	255.15	0.42	0.41	6.72
43	4127.00	0.35	28.89	94.00	4126.78	-5.16	5.16	S	17.69	W	18.42	253.73	1.37	-0.63	-177.86
44	4220.00	0.11	347.53	93.00	4219.78	-4.82	4.82	S	17.57	W	18.22	254.64	0.30	-0.26	342.62
45	4312.00	0.54	200.97	92.00	4311.78	-5.14	5.14	S	17.74	W	18.47	253.83	0.69	0.47	-159.30
46	4405.00	1.05	195.99	93.00	4404.77	-6.37	6.37	S	18.13	W	19.22	250.64	0.55	0.55	-5.35
47	4498.00	0.82	16.25	93.00	4497.77	-6.55	6.55	S	18.18	W	19.33	250.18	2.01	-0.25	-193.27
48	4591.00	2.22	5.48	93.00	4590.73	-4.12	4.12	S	17.83	W	18.30	256.99	1.53	1.51	-11.58
49	4684.00	1.10	351.33	93.00	4683.69	-1.44	1.44	S	17.79	W	17.85	265.36	1.27	-1.20	371.88
50	4777.00	2.15	13.92	93.00	4776.66	1.13	1.13	N	17.50	W	17.54	273.70	1.30	1.13	-362.81
51	4870.00	1.42	358.30	93.00	4869.61	3.98	3.98	N	17.12	W	17.57	283.08	0.94	-0.78	370.30
52	4963.00	0.96	336.76	93.00	4962.59	5.84	5.84	N	17.46	W	18.41	288.51	0.68	-0.49	-23.16
53	5056.00	1.98	352.25	93.00	5055.56	8.15	8.15	N	17.98	W	19.74	294.39	1.17	1.10	16.66
54	5149.00	1.67	345.19	93.00	5148.51	11.05	11.05	N	18.55	W	21.59	300.80	0.41	-0.33	-7.59
55	5243.00	1.25	339.49	94.00	5242.48	13.34	13.34	N	19.26	W	23.42	304.71	0.47	-0.45	-6.06
56	5336.00	2.46	348.37	93.00	5335.43	16.24	16.24	N	20.01	W	25.78	309.07	1.33	1.30	9.55
57	5429.00	1.44	323.75	93.00	5428.38	19.14	19.14	N	21.11	W	28.49	312.20	1.40	-1.10	-26.47
58	5522.00	1.36	281.25	93.00	5521.35	20.30	20.30	N	22.88	W	30.59	311.58	1.09	-0.09	-45.70
59	5615.00	1.17	239.05	93.00	5614.33	20.03	20.03	N	24.78	W	31.86	308.95	1.00	-0.20	-45.38
60	5708.00	0.81	299.56	93.00	5707.32	19.86	19.86	N	26.16	W	32.85	307.20	1.12	-0.39	65.06
61	5802.00	2.15	15.84	94.00	5801.29	21.89	21.89	N	26.26	W	34.18	309.81	2.24	1.43	-301.83
62	5895.00	1.34	352.33	93.00	5894.25	24.64	24.64	N	25.93	W	35.77	313.54	1.15	-0.87	361.82
63	5988.00	0.64	303.06	93.00	5987.24	26.00	26.00	N	26.51	W	37.13	314.45	1.12	-0.75	-52.98
64	6081.00	1.02	230.88	93.00	6080.23	25.76	25.76	N	27.59	W	37.75	313.04	1.10	0.41	-77.61
65	6174.00	0.66	319.00	93.00	6173.22	25.65	25.65	N	28.58	W	38.40	311.90	1.29	-0.39	94.75
66	6267.00	0.52	320.48	93.00	6266.22	26.38	26.38	N	29.20	W	39.35	312.09	0.15	-0.15	1.59
67	6360.00	0.50	283.98	93.00	6359.21	26.80	26.80	N	29.86	W	40.12	311.91	0.34	-0.02	-39.25
68	6454.00	0.77	245.71	94.00	6453.21	26.64	26.64	N	30.84	W	40.75	310.82	0.52	0.29	-40.71
69	6547.00	1.15	229.37	93.00	6546.20	25.77	25.77	N	32.11	W	41.18	308.75	0.50	0.41	-17.57
70	6640.00	1.59	217.56	93.00	6639.17	24.14	24.14	N	33.61	W	41.38	305.69	0.56	0.47	-12.70
71	6734.00	1.76	210.42	94.00	6733.13	21.86	21.86	N	35.13	W	41.38	301.90	0.29	0.18	-7.60
72	6827.00	2.19	205.94	93.00	6826.07	19.04	19.04	N	36.63	W	41.29	297.46	0.49	0.46	-4.82



Company: EP Energy
Well: Hogge 3-16C4
Location: Duchesne, UT
Rig: Precision 404

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
MWD Eng: _____

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates				Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction	Distance (ft)	Direction			
73	6920.00	2.43	206.77	93.00	6919.00	15.68	15.68	N	38.30	W	41.38	292.26	0.26	0.26	0.89
74	7013.00	2.60	206.91	93.00	7011.91	12.04	12.04	N	40.14	W	41.91	286.69	0.18	0.18	0.15
75	7106.00	1.64	238.14	93.00	7104.85	9.45	9.45	N	42.23	W	43.27	282.62	1.58	-1.03	33.58
76	7199.00	1.75	242.49	93.00	7197.81	8.09	8.09	N	44.62	W	45.35	280.28	0.18	0.12	4.68
77	7292.00	2.06	225.62	93.00	7290.75	6.27	6.27	N	47.07	W	47.49	277.59	0.69	0.33	-18.14
78	7386.00	2.20	217.44	94.00	7384.69	3.66	3.66	N	49.38	W	49.51	274.23	0.36	0.15	-8.70
79	7479.00	2.57	212.66	93.00	7477.61	0.48	0.48	N	51.59	W	51.59	270.54	0.45	0.40	-5.14
80	7572.00	2.78	207.02	93.00	7570.51	-3.28	3.28	S	53.74	W	53.84	266.50	0.36	0.23	-6.06
81	7665.00	1.29	226.87	93.00	7663.45	-6.01	6.01	S	55.53	W	55.85	263.83	1.75	-1.60	21.34
82	7758.00	1.69	214.72	93.00	7756.42	-7.85	7.85	S	57.07	W	57.61	262.17	0.55	0.43	-13.06
83	7851.00	1.78	213.47	93.00	7849.37	-10.18	10.18	S	58.65	W	59.53	260.15	0.10	0.10	-1.34
84	7944.00	1.84	216.61	93.00	7942.33	-12.59	12.59	S	60.33	W	61.63	258.22	0.12	0.06	3.38
85	8038.00	1.91	218.57	94.00	8036.28	-15.02	15.02	S	62.21	W	64.00	256.43	0.10	0.07	2.09
86	8131.00	2.00	227.49	93.00	8129.22	-17.33	17.33	S	64.37	W	66.67	254.93	0.34	0.10	9.59
87	8224.00	2.49	225.26	93.00	8222.15	-19.85	19.85	S	67.01	W	69.88	253.50	0.54	0.53	-2.40
88	8317.00	2.59	214.24	93.00	8315.06	-23.01	23.01	S	69.62	W	73.33	251.71	0.54	0.11	-11.85
89	8410.00	2.71	209.01	93.00	8407.96	-26.67	26.67	S	71.87	W	76.66	249.64	0.29	0.13	-5.62
90	8503.00	3.09	199.52	93.00	8500.84	-30.95	30.95	S	73.77	W	80.00	247.24	0.66	0.41	-10.20
91	8597.00	3.41	205.28	94.00	8594.69	-35.87	35.87	S	75.82	W	83.87	244.68	0.49	0.34	6.13
92	8690.00	3.18	227.91	93.00	8687.54	-40.10	40.10	S	78.91	W	88.51	243.06	1.41	-0.25	24.33
93	8783.00	1.47	232.55	93.00	8780.46	-42.55	42.55	S	81.77	W	92.18	242.51	1.85	-1.84	4.99
94	8876.00	1.82	222.61	93.00	8873.42	-44.37	44.37	S	83.72	W	94.75	242.08	0.48	0.38	-10.69
95	9000.00	1.68	210.45	124.00	8997.37	-47.39	47.39	S	85.98	W	98.17	241.14	0.32	-0.11	-9.81
96	9100.00	2.09	204.89	100.00	9097.31	-50.30	50.30	S	87.49	W	100.92	240.10	0.44	0.40	-5.56
97	9200.00	1.12	210.84	100.00	9197.27	-52.79	52.79	S	88.75	W	103.27	239.26	0.98	-0.97	5.94
98	9300.00	1.29	211.71	100.00	9297.25	-54.58	54.58	S	89.84	W	105.12	238.72	0.17	0.17	0.87
99	9400.00	1.21	211.20	100.00	9397.23	-56.44	56.44	S	90.98	W	107.06	238.19	0.08	-0.08	-0.50
100	9500.00	1.50	200.50	100.00	9497.20	-58.57	58.57	S	91.98	W	109.05	237.51	0.38	0.29	-10.71
101	9600.00	2.11	190.17	100.00	9597.15	-61.60	61.60	S	92.77	W	111.36	236.41	0.69	0.61	-10.33
102	9700.00	2.31	184.33	100.00	9697.07	-65.42	65.42	S	93.24	W	113.90	234.95	0.30	0.20	-5.85
103	9800.00	2.29	177.32	100.00	9796.99	-69.42	69.42	S	93.30	W	116.30	233.35	0.28	-0.02	-7.01
104	9900.00	2.53	183.77	100.00	9896.91	-73.62	73.62	S	93.35	W	118.89	231.74	0.36	0.24	6.45
105	10000.00	2.73	183.67	100.00	9996.80	-78.19	78.19	S	93.65	W	122.00	230.14	0.20	0.20	-0.10
106	10100.00	2.44	193.22	100.00	10096.70	-82.64	82.64	S	94.29	W	125.38	228.77	0.52	-0.29	9.55
107	10200.00	2.47	194.00	100.00	10196.61	-86.80	86.80	S	95.30	W	128.90	227.67	0.05	0.04	0.78
108	10300.00	2.25	196.82	100.00	10296.52	-90.77	90.77	S	96.39	W	132.40	226.72	0.25	-0.22	2.82
109	10400.00	2.47	192.84	100.00	10396.44	-94.75	94.75	S	97.43	W	135.90	225.80	0.28	0.22	-3.98



Company: EP Energy **Job Number:** _____
Well: Hogge 3-16C4 **Mag Decl.:** _____
Location: Duchesne, UT **Dir Driller:** _____
Rig: Precision 404 **MWD Eng:** _____

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
110	10500.00	2.34	191.67	100.00	10496.35	-98.85	98.85	S	98.32	W	139.42	224.85	0.14	-0.13	-1.16
111	10600.00	2.43	189.74	100.00	10596.26	-102.94	102.94	S	99.10	W	142.89	223.91	0.12	0.09	-1.93
112	10700.00	2.43	191.03	100.00	10696.17	-107.10	107.10	S	99.86	W	146.43	223.00	0.05	0.00	1.29
113	10800.00	2.43	184.97	100.00	10796.08	-111.29	111.29	S	100.45	W	149.92	222.07	0.26	0.01	-6.06
114	10900.00	2.78	183.79	100.00	10895.98	-115.82	115.82	S	100.79	W	153.54	221.03	0.35	0.35	-1.17
115	11000.00	2.58	182.03	100.00	10995.87	-120.48	120.48	S	101.03	W	157.24	219.98	0.22	-0.20	-1.76
116	11100.00	2.76	174.43	100.00	11095.76	-125.12	125.12	S	100.88	W	160.72	218.88	0.40	0.18	-7.60
117	11200.00	2.91	184.91	100.00	11195.64	-130.05	130.05	S	100.86	W	164.58	217.80	0.54	0.16	10.48
118	11300.00	2.63	182.25	100.00	11295.52	-134.87	134.87	S	101.17	W	168.60	216.87	0.31	-0.28	-2.66
119	11400.00	2.94	181.99	100.00	11395.41	-139.73	139.73	S	101.35	W	172.61	215.95	0.31	0.31	-0.26
120	11515.00	2.95	177.65	115.00	11510.25	-145.63	145.63	S	101.33	W	177.41	214.83	0.19	0.00	-3.77
121	11628.00	2.95	177.65	113.00	11623.10	-151.43	151.43	S	101.09	W	182.07	213.73	0.00	0.00	0.00

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Hogge 3-16C4
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013527750000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5138 Ext
9. FIELD and POOL or WILDCAT: ALTAMONT	4. LOCATION OF WELL FOOTAGES AT SURFACE: 1574 FSL 1560 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 16 Township: 03.0S Range: 04.0W Meridian: U
	COUNTY: DUCHESNE
	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/27/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached proposed procedure along with current and post WBD's.

Approved by the
July 19, 2016
Oil, Gas and Mining

Date: _____

By: *D. K. Quist*

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 7/19/2016	

Hogge 3-16C4 Recom Summary Procedure

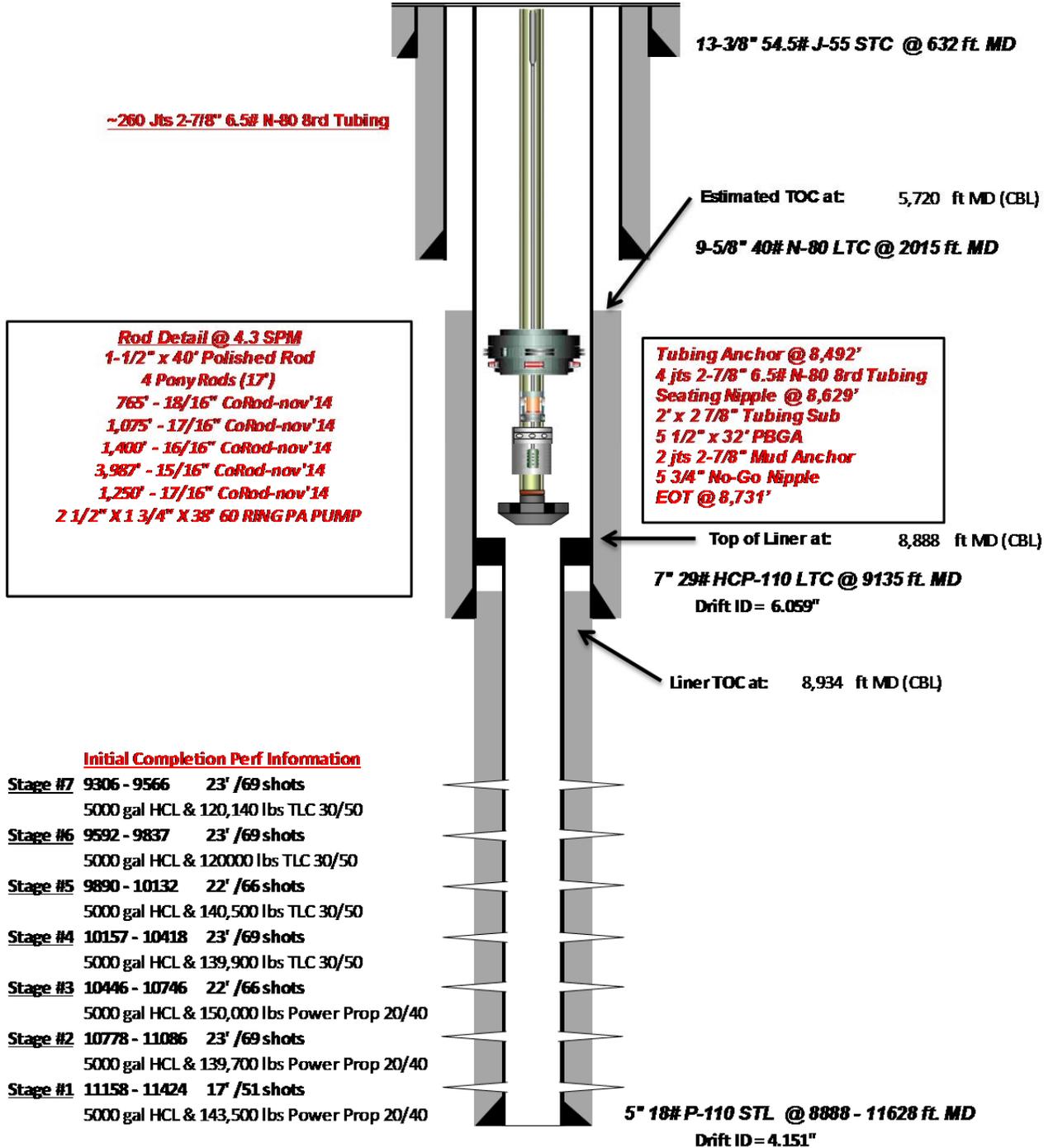
- POOH with Co-Rod & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing.
- Set 15M CBP for 5" 18# casing @ 9,250' and dump bail 15' cmt on top of plug.
- Stage 1:
 - Perforate new UW interval from **8,921' – 9,206'**.
 - Prop Frac perforations with **145,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **10,000** gals 15% HCl acid) (Stage 1 Recom).
- Stage 2:
 - RIH with 5" CBP & set @ 8,916'.
 - Perforate new LGR interval from **8,693' – 8,870'**.
 - Acid Frac Perforations with **90,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **8,000** gals 15% HCl acid) (Stage 2 Recom).
- Stage 3:
 - RIH with 7" CBP & set @ 8,488'.
 - Perforate new LGR interval from **8,354' – 8,473'**.
 - Acid Frac Perforations with **13,000** gals 15% HCl acid (Stage 3 Recom).
- Stage 4:
 - RIH w/ 7" CBP & set @ 8,243'.
 - Perforate new LGR interval from **8,154' – 8,228'**.
 - Acid Frac Perforations with **8,000** gals 15% HCl (Stage 4 Recom).
- Stage 5:
 - RIH w/ 7" CBP & set @ 8,121'.
 - Perforate new LGR interval from **7,908' – 8,106'**.
 - Prop Frac perforations with **100,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **9,000** gals 15% HCl acid) (Stage 5 Recom).
- Stage 6:
 - RIH w/ 7" CBP & set @ 7,882'.
 - Perforate new LGR interval from **7,744' – 7,867'**.
 - Prop Frac perforations with **65,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **7,000** gals 15% HCl acid) (Stage 6 Recom).
- Clean out well drilling up (4) 7" CBPs and (1) 5" CBP leaving 5" 15M CBP @ 9,250'. (PBTD @ 9,240'). Top perf BELOW plugs @ 9,306'.
- RIH w/ production tubing, pump, and co-rod.
- Clean location and resume production.



Current Pumping Wellbore Schematic

Well Name: **Hogge 3-16 C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne County, Utah**
 Surface Location: **Lat: 40°13'03.59084" N Long: 110°20'43.40468" W**
 Producing Zone(s): **Green River / Wasatch**

Last Updated: **10/13/2015**
 By: **Tomova**
 TD: **11,628**
 API: **43013527750000**
 AFE:

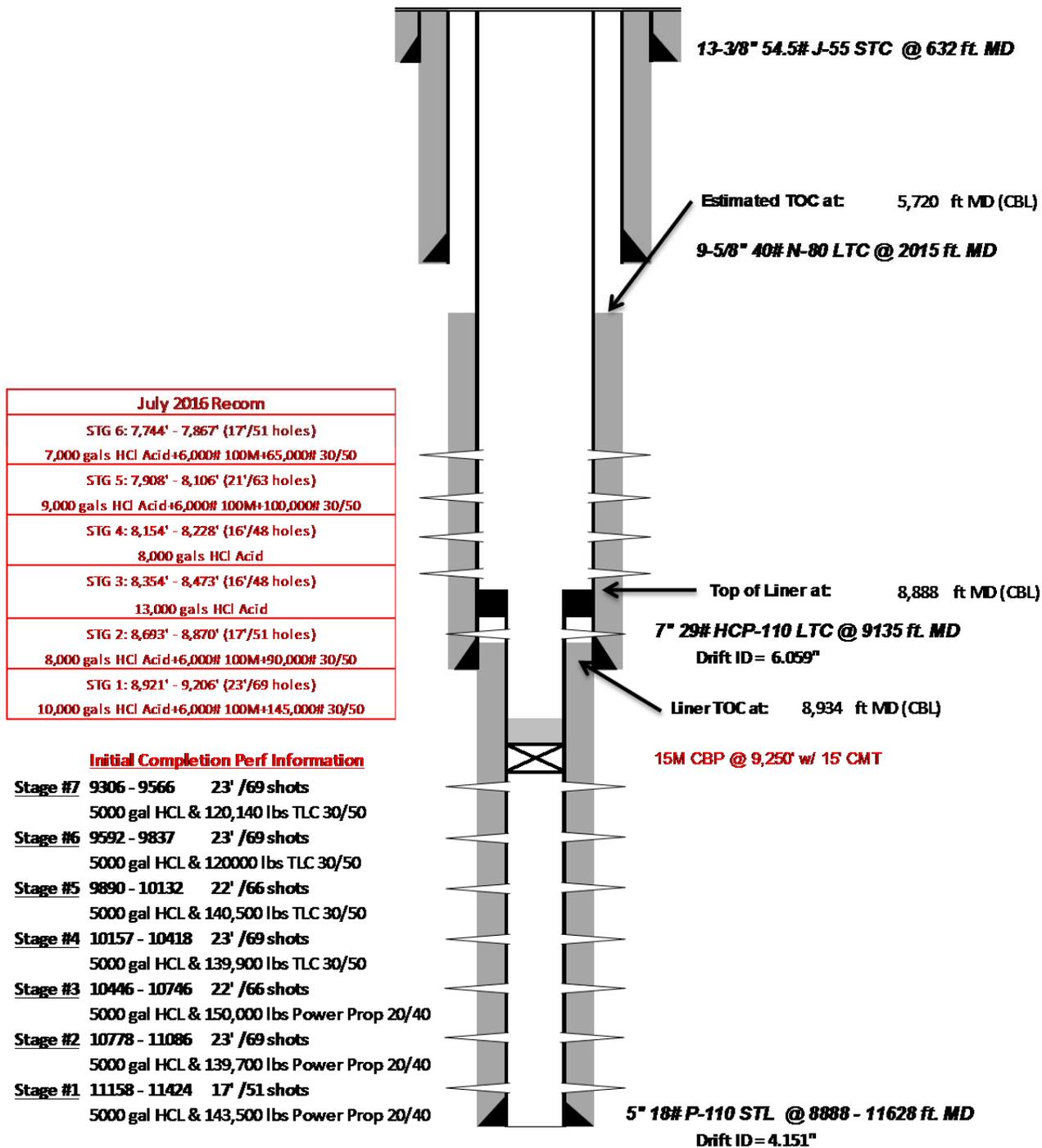




Proposed Pumping Wellbore Schematic

Well Name: Hogge 3-16 C4
 Company Name: EP Energy
 Field, County, State: Altamont, Duchesne County, Utah
 Surface Location: Lat: 40°13'03.59084" N Long: 110°20'43.40468" W
 Producing Zone(s): Green River / Wasatch

Last Updated: 7/15/2016
 By: Fondren/Krug
 TD: 11,628
 API: 43013527750000
 AFE: _____



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

RECOMPLETION

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

U . S . B . & M .

12. COUNTY

13. STATE

UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

2. NAME OF OPERATOR:

3. ADDRESS OF OPERATOR: CITY _____ STATE _____ ZIP _____ PHONE NUMBER: _____

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

14. DATE SPUDDED: _____ 15. DATE T.D. REACHED: _____ 16. DATE COMPLETED: _____ ABANDONED READY TO PRODUCE 17. ELEVATIONS (DF, RKB, RT, GL):

18. TOTAL DEPTH: MD _____ TVD _____ 19. PLUG BACK T.D.: MD _____ TVD _____ 20. IF MULTIPLE COMPLETIONS, HOW MANY? * _____ 21. DEPTH BRIDGE PLUG SET: MD _____ TVD _____

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) _____ TITLE _____
 SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

CENTRAL DIVISION

ALTAMONT FIELD

HOGGE 3-16C4

HOGGE 3-16C4

RECOMPLETE LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	HOGGE 3-16C4		
Project	ALTAMONT FIELD	Site	HOGGE 3-16C4
Rig Name/No.		Event	RECOMPLETE LAND
Start date	8/4/2016	End date	8/30/2016
Spud Date/Time	4/28/2014	UWI	HOGGE 3-16C4
Active datum	KB @5,910.2ft (above Mean Sea Level)		
Afe No./Description	166972/57073 / HOGGE 3-16C4		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
8/17/2016	10:00 10:30	0.50	MIRU	01		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; CO-ROD OPERATIONS
	10:30 11:30	1.00	MIRU	01		P		SLIDE ROTO FLEX MIRU CO-ROD PUMP 60 BBLs OF HOT 2% KCL WATER DOWN ANNULAS
	11:30 15:00	3.50	UNINARTL T	39		P		UNSEAT PUMP FLUSH TBG w 60 BBLs OF 2% KCL WATER TOH w CO-ROD L/D PUMP
	15:00 15:30	0.50	RDMO	02		P		RDMO CO-ROD UNIT MOVE CO-ROD REAL TO SIDE OF LOCATION
	15:30 19:30	4.00	MIRU	01		P		MIRU WOR N/D WELL HEAD N/U AND TEST BOPE RELEASE 7" TAC L/D HANGER SECURE WELL CLOSE BOPE AND LOCK BARRIER 1 INSTALL TIW VALVE w NIGHT CAP BARRIER 1 & 2 CLOSE CSG VALVES w NIGHT CAP BARRIER 1 & 2 SDFN
8/18/2016	6:00 7:00	1.00	PRDHEQ	24		P		TRAVEL TO LOC HSM, REVIEW JSA= SCAN TUB AND LD TUBING
	7:00 16:00	9.00	PRDHEQ	24		P		OPEN WELL MIRU SCANERS POOH SCANNING TUBINGPOOH W/ 264 JNTS, 218 YELLOW BAND, 43 BLUE BAND, 3 RED BAND, LD ANCHOR AND BHA CLOSE AND LOCK BLIND RAMS CLOSE CSG VALVE W/ BULL PLUG OPEN WELL TO SALES SDFN
8/19/2016	6:00 7:00	1.00	WOR	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; WIRELINE OPERATIONS
	7:00 13:00	6.00	WLWORK	26		P		MIRU TEST LUBRICATOR P/U 6" GAUGE RING TIH TO 8888' TOH L/D 6" GAUGE RING P/U 4" GAUGE RING TIH TO 9270' TOH L/D 4" GAUGE RING P/U 5" 15K CBP TIH AND SET AT 9250' TOH L/D SETTING TOOL P/U DUMP BAILER TIH DUMP 15' OF CMT TOC 9235' TOH L/D BAILER RDMO WIRELINE
	13:00 20:00	7.00	WOR	16		P		INSTALL 2 WAY IN HANGER AND LAND N/D BOPE N/U AND TEST 7" MASTER VALVE TO 8500 PSI FOR 10 MIN PRESSURE TEST CSG TO 8000 PSI AND CHART FOR 30 MIN TEST GOOD N/U AND TEST 7" HCR VALVE 7" GOAT HEAD 7" HCR TO 9500 PSI TEST GOOD CLOSE ALL VALVES BARRIER 1 2 & 3 INSTALL NIGHT CAP BARRIER 4 CLOSE CSG VALVES w NIGHT CAPS BARRIER 1 & 2 SDFN
8/20/2016	6:00 7:00	1.00	SITEPRE	28		P		CREW TRAVEL TO LOCATION HSM WRITE NAD REVIEW JSA TOPIC; FRAC OPERATIONS
	7:00 16:00	9.00	RDMO	02		P		RDMO RIG ROAD TO 5-9C4 R/U AND TEST FLOW BACK LINES TO 8000 PSI R/U WATER MANIFOIL CONTINUE HAULING IN WATER

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	16:00 16:41	0.68	SITEPRE	01		P		MIRU HOT OIL TRUCKS START HEATING WATER MIRU WIRELINE P/U AND TEST LUBRICATOR TO 4500 PSI
	16:41 20:00	3.32	WLWORK	21		P		P/U 3-1/8 GUN w 22.7 GM 3JSPF 120 PHASING TIH PERFORATE STG 1 9206'-8921' STARTING PRESSURE 0 PSI TOH L/D GUN ALL PERFORATIONS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG 05/22/14 RUN #1 SECURE WELL CLOSE ALL VALVES BARRIER 1 2 & 3 INSTALL NIGHT CAP BARRIER 4 CLOSE CSG VALVES w NIGHT CAPS BARRIER 1 & 2 SDFN
8/21/2016	6:00 9:00	3.00	SITEPRE	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; FRAC RIG UP
	9:00 16:00	7.00	MIRU	01		P		MIRU FRAC EQUIPMENT
8/22/2016	6:00 7:00	1.00	STG01	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; FRAC OPERATIONS...OFF LOAD ACID INTO ACID TANKS
	7:00 8:10	1.17	STG01	35		P		START AND PRIME TRUCKS
	8:10 10:10	2.00	STG01	35		P		STAGE 1; PRESSURE TEST LINES TO 9206 PSI. OPEN WELL. 320 PSI BRAKE DOWN STG 1 PERFORATION 9206' TO 8921' AT 4483 PSI, PUMPING 10 BPM TREAT w/ 10000 GAL 15% HCL ACID FR-76 WATER ACID FLUSH STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN ISDP 3107 PSI FG .77 5MIN 2945 10 MIN 2870 15MIN 2809 TREATED STAGE 1... AS PER PROCEDURE FR WATER SPACER 25# CROSSLINK PAD 25# CROSSLINK 100 MESH 10# LINEAR GEL SWEEP 10# LINEAR GEL .05# W30/50 10# LINEAR GEL 1# W 30/50 20# CROSSLINK 1.5# W 30/50 20# CROSSLINK 2# W30/50 20# CROSSLINK 3# W30/50 STG FLUSH TO TOP PERF...ISDP 3517 PSI. AVG RATE 75 BPM. AVG PSI 4531 PSI. MAX PSI 5171 PSI. TTL PROP 146100# 5 MIN 3249 PSI 10 MIN 3142 PSI TURN OVER TO WIRELINE
	10:10 12:29	2.32	STG02	21		P		STAGE 2; SET COMPOSITE FRAC PLUG AT 8880' PRESSURE ON WELL 2900 PSI PERFORATE STAGE 2 PERFORATIONS 8870' TO 8692', 17 NET FEET 51 TTL SHOTS w 3-1/8" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 2900 PSI ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG RUN #1 5/22/14
	12:29 14:25	1.93	STG02	35		P		STAGE 2; PRESSURE TEST LINES TO 9260 PSI. OPEN WELL 2520 PSI BRAKE DOWN STG 2 PERFORATION 8870' TO 8693' AT 2796 PSI, PUMPING 10 BPM TREAT w/ 8000 GAL 15% HCL ACID FR-76 WATER ACID FLUSH STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN ISDP 2858 PSI FG .76 5MIN 2727 10 MIN 2664 15MIN 2632 TREATED STAGE 2... AS PER PROCEDURE FR WATER SPACER 25# CROSSLINK PAD 25# CROSSLINK 100 MESH 10# LINEAR GEL SWEEP 10# LINEAR GEL .05# W30/50 10# LINEAR GEL 1# W 30/50 20# CROSSLINK 1.5# W 30/50 20# CROSSLINK 1.75# W30/50 20# CROSSLINK 2.5# W30/50 STG FLUSH TO TOP PERF...ISDP 2995 PSI. AVG RATE 73 BPM. AVG PSI 3911 PSI. MAX PSI 4235 PSI. TTL PROP 99700# 5 MIN 2849 PSI 10 MIN 2767 PSI TURN OVER TO WIRELINE
	14:25 15:55	1.50	STG03	21		P		STAGE 3; SET COMPOSITE FRAC PLUG AT 8488' PRESSURE ON WELL 2700 PSI PERFORATE STAGE 3 PERFORATIONS 8473' TO 8354', 16 NET FEET 48 TTL SHOTS w 3-1/8" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 2400 PSI ALL PERFS CORRELATED TO THE PERFORATORS CBL/GR/CCL LOG RUN #1 5/22/14

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	15:55 16:53	0.97	STG03	35		P		STAGE 3; PRESSURE TEST LINES TO 9176 PSI. OPEN WELL. 1680 PSI BRAKE DOWN STG 3 PERFORATION 8473' TO 8354' AT 5600 PSI, SHUT DOWN FOR 15 MIN ISDP 2358 PSI 5 MIN 2111 PSI 10MIN 1970 PSI 15 MIN 1910 PSI TREAT w/ 13000 GAL 15% HCL ACID DROP 60 BIO BALL 15 BIO BALL EVERY 2600 GALS FLUSH TO BTM PERF + 10 BBLS SHUT DOWN FOR 15 MIN ISDP 2223 PSI 5MIN 2102 PSI 10 MIN 1662 AVG RATE 49 BPM. AVG PSI 4261 PSI. MAX PSI 4911 PSI. TURN WELL OVER TO WIRELINE
	16:53 18:36	1.72	STG04	21		P		STAGE 4; SET COMPOSITE FRAC PLUG AT 8243' PRESSURE ON WELL 1600 PSI PERFORATE STAGE 4 PERFORATIONS 8228' TO 8154', 16 NET FEET 48 TTL SHOTS w 3-1/8" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 1100 PSI ALL PERFS CORRELATED TO THE PERFORATERS CBL/GR/CCL LOG RUN #1 5/22/14
	18:36 19:20	0.73	STG04	35		P		STAGE 4; PRESSURE TEST LINES TO 9165 PSI. OPEN WELL 1100 PSI BRAKE DOWN STG 4 PERFORATION 8228' TO 8154' AT 2590 PSI, SHUT DOWN FOR 15 MIN ISDP 1313 PSI 5 MIN 645 PSI 10MIN 511 PSI 15 MIN 449 PSI TREAT w/ 8000 GAL 15% HCL ACID DROP 60 BIO BALL 20 BIO BALL EVERY 2000 GALS FLUSH TO BTM PERF + 10 BBLS SHUT DOWN FOR 15 MIN ISDP 1560 PSI 5MIN 1095 PSI 10 MIN 820 AVG RATE 49 BPM. AVG PSI 2803 PSI. MAX PSI 6160 PSI. TURN WELL OVER TO WIRELINE
	19:20 21:30	2.17	STG05	21		P		STAGE 5; SET COMPOSITE FRAC PLUG AT 8121' PRESSURE ON WELL 800 PSI PERFORATE STAGE 5 PERFORATIONS 8106' TO 7908', 21 NET FEET 63 TTL SHOTS w 3-1/8" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 600 PSI ALL PERFS CORRELATED TO THE PERFORATERS CBL/GR/CCL LOG RUN #1 5/22/14 SECURE WELL CLOSE ALL VALVES BARRIER 1 2 & 3 INSTALL NIGHT CAP BARRIER 4 CLOSE CSG VALVES w NIGHT CAPS BARRIER 1 & 2 SDFN
8/23/2016	6:00 7:00	1.00	STG05	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; FRAC OPERATIONS
	7:00 8:30	1.50	STG05	35		P		START AND PRIME TRUCKS
	8:30 9:49	1.32	STG05	35		P		STAGE 5 PRESSURE TEST LINES TO 9111 PSI. OPEN WELL. 145 PSI BRAKE DOWN STG 5 PERFORATION 8106' TO 7908' AT 2392 PSI, PUMPING 10 BPM TREAT w/ 9000 GAL 15% HCL ACID FR-76 WATER ACID FLUSH STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN ISDP 1759 PSI FG .77 5MIN 1494 10 MIN 1317 15MIN 1091 TREATED STAGE 5... AS PER PROCEDURE FR WATER SPACER 25# CROSSLINK PAD 25# CROSSLINK 100 MESH 10# LINEAR GEL SWEEP 10# LINEAR GEL .05# W30/50 10# LINEAR GEL 1# W 30/50 20# CROSSLINK 1.5# W 30/50 20# CROSSLINK 2# W30/50 20# CROSSLINK 3# W30/50 STG FLUSH TO TOP PERF...ISDP 2197 PSI. AVG RATE 72 BPM. AVG PSI 2536 PSI. MAX PSI 2909 PSI. TTL PROP 19100# 5 MIN 2027 PSI 10 MIN 1917 PSI TURN OVER TO WIRELINE
	9:49 11:29	1.67	STG06	21		P		STAGE 6; SET COMPOSITE FRAC PLUG AT 7882' PRESSURE ON WELL 1400 PSI PERFORATE STAGE 6 PERFORATIONS 7867' TO 7744', 17 NET FEET 51 TTL SHOTS w 3-1/8" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 1100 PSI ALL PERFS CORRELATED TO THE PERFORATERS CBL/GR/CCL LOG RUN #1 5/22/14

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	11:29 12:23	0.90	STG06	35		P		STAGE 6; PRESSURE TEST LINES TO 9118 PSI. OPEN WELL 1060 PSI BRAKE DOWN STG 6 PERFORATION 7867' TO 7744' AT 4836 PSI, SHUT DOWN FOR 15 MIN ISDP 2284 PSI 5 MIN 1565 PSI 10MIN 1316 PSI 15 MIN 1170 PSI TREAT w/ 14000 GAL 15% HCL ACID DROP 60 BIO BALL 12 BIO BALL EVERY 2333 GALS FLUSH TO BTM PERF + 10 BBLS SHUT DOWN FOR 15 MIN ISDP 1881 PSI 5MIN 1459 PSI 10 MIN 1327 AVG RATE 48 BPM. AVG PSI 4866 PSI. MAX PSI 7496 PSI SECURE WELL CLOSE ALL VALVES BARRIER 1 2 & 3 INSTALL NIGHT CAP BARRIER 4 CLOSE CSG VALVES w NIGHT CAPS BARRIER 1 & 2 WAIT THREE HRS TO OPEN FOR FLOW BACK
	12:23 15:30	3.12	RDMO	02		P		RDMO FRAC EQUIPMENT RDMO WIRELINE
	15:30 6:00	14.50	FB	10		P		OPEN WELL 900 PSI ON A 12/64 CHOKE TURN WELL OVER TO PRODUCTION...FLOW BACK 348 BBLS OF WATER 0 BBLS OF OIL O GAS 12/64 CHOKE 265 PSI
8/24/2016	6:00 6:00	24.00	FB	23		P		FLOW WELL AS INSTRUCTED
8/25/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (ND AND NU PROCEDURES)
	7:30 12:30	5.00	WOR	16		P		KILL WELL W/ 280 BBLS, ND STACK TO MANUEL, NU AND TEST BOP AND HYDRILL AS PER PROCEDURE
	12:30 21:30	9.00	WOR	40		P		PUMU & RIH W/ 6" BIT, BIT SUB, 243 JTS 2 7/8" 8RD TAG @ 7913' SLM. RU SWIVEL DRILL UP CBP, CIH TAG @ 8132' W/ JT# 251 CLEAN OUT SAND TO 2ND PLUG @ 8147' SLM. DRILL UP CBP, CIRC CLEAN. PULL ABOVE PERFS. SHUT AND LOCK PIPE RAMS, SHUT HYDRILL. SHUT AND BULL PLUG ALL CASING VALVES. INSTALL AND SHUT TIW VALVE, INSTALL NIGHT CAP. CREW TRAVEL
8/26/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON DAILY OPERATIONS. FILL OUT & REVIEW JSA
	7:00 21:30	14.50	WOR	10		P		BLEED PRESSURE OFF WELL. TIH & TAG CBP REMAINS @ 8256'. BREAK REVERSE CIRCULATION & DRILL CBP REMAINS. CONTINUE IN HOLE TO CBP SET @ 8262' WLM (8262' TBG DEPTH). DRILL CBP. CIRCULATE CLEAN.KILL TBG & CHASE REMAINS TO 8518'. DRILL CBP REMAINS. RIH & TAG CBP SET @ 8488' (8522' TBG DEPTH. DRILL CBP CIRCULATE CLEAN.KILL TBG & CHASE REMAINS TO 8895' TBG DEPTH. DRILL CBP REMAINS.TAG CBP SET @ 8880' @ 8901' TBG DEPTH. DRILL CBP & CHASE REMAINS TO LINER TOP. FINISH DRILLING CBP ON LINER TOP. CIRCULATE CLEAN. KILL TBG W/ 50 BBLS 10 PPG BRINE WTR. RD POWER SWIVEL. LD 1 JT TBG. TOOH W/ 40 JTS 2-7/8"EUE TBG.
	21:30 22:00	0.50	WOR	18		P		RU FLOW LINE TO TBG
	22:00 6:00	8.00	WOR	19		P		OPEN WELL TO FLOW BACK TANK
8/27/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON DAILY OPERATIONS
	7:00 9:00	2.00	WOR	15		P		KILL WELL W/ 285 BBLS 10 PPG BRINE WTR
	9:00 14:00	5.00	WOR	39		P		TOOH W/ 221 JTS 2-7/8"EUE TBG, BIT SUB & 6" BIT. TIH W/ 4-1/8" BIT, BIT SUB, 15 JTS 2-3/8"EUE TBG, X-OVER & 262 JTS 2-7/8"EUE TBG.
	14:00 17:30	3.50	WOR	10		P		DRILL CBR REMAINS @ LINER TOP. CIRCULATE CLEAN. TIH & TAG UP @ 9112'. RU POWER SWIVEL & BREAK REVERSE CIRCULATION. CLEAN OUT TO CMT TOP @ 9235' WIRELINE MEASUREMENT. BIT PLUGGED. RD POWER SWIVEL.
	17:30 21:00	3.50	WOR	18		P		POOH W/ 51 JTS 2-7/8"EUE TBG. RU WIRELINE UNIT. RIH & PERFORATE TBG @ 7600'. POOH & RD WIRELINE UNIT.
	21:00 6:00	9.00	WOR	19		P		FLOW WELL TO FLOW BACK TANK. RECOVERED 415 BBLS WTR WITH WELL FLOWING ON A 24/64" CHOKE. PRESSURE @ REPORT TIME 225 PSI TBG & 825 PSI CSG PRESSURE
8/28/2016	6:00 6:30	0.50	WOR	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	6:30 6:00	23.50	WOR	19		P		FLOW WELL. RECOVERED 100 BBLS OIL & 944 BBLS WTR FLOWING ON A 24/64" CHOKE. PRESSURE @ REPORT TIME 225 PSI TBG PRESSURE & 825 PSI CSG PRESSURE
8/30/2016	7:00 8:30	1.50	WOR	15		P		TRAVEL TO LOC HSM, REVIEW JSA= WELL CONTROL AND TRIPPING TUBING
	8:30 10:30	2.00	WOR	15		P		TUB FWP= 250 PSI, CSG SIWP= 1000 PSI, CONTROL WELL W/ 300 BBLS BRINE WTR PUMP DOWN TUBING
	10:30 19:00	8.50	PRDHEQ	39		P		POOH W/ 4-1/8" BIT, LD BIT PU RIH W/ PRODUCTION SET TUBING ANCHOR @ 8450' PSN @ 8627'RD FLOOR AND TUBING EQUIP ND BOPS AND FRAC VALVE NU WELL HEADSI CSG W/ BOLL PLUG SU TUBING W/ BULL PLUG , RD RIG MOVE RIG TO ARONCO 4-4C4 SDFN
8/31/2016	6:00 7:30	1.50	INARTLT	03		P		TRAVEL TO LOC HSM REVIEW JSACRANE AND COROD
	7:30 20:00	12.50	INARTLT	03		P		MIRU COROD RIG PU 2-1/4 PLUNGER STABILIZER BAR RIH W/ CO ROD MAKING 5 SPLICES/ WELDS, RIH W/ 1500' 18/16, 1075' 17/16, 1400' 16/16, 1550' 17/16, STABILIZER BAR AND 2-1/4 x4' PLUNGER, PU POLISH ROD ASSM SEAT PUMP PRESS TEST TO 1000 PSI RD COROD RIG SLIDE UNIT STROKE PUMP TURN WELL OVER TO PRODUCTION. TRANSFERED 330 BBLS OIL TO PRODUCTION TANK