API Well Number: 43047547350000

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
Hamaker 3-25A1

2. TYPE OF WORK
DRILL NEW WELL ● REENTER P&A WELL ○ DEEPEN WELL ○

3. FIELD OR WILDCAT
BLUEBELL

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 ○ INDIAN ○ STATE ○ FEE ●

12. SURFACE OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ○ FEE ●

13. NAME OF SURFACE OWNER (if box 12 = 'fee')
Brent E. Hamaker

14. SURFACE OWNER PHONE (if box 12 = 'fee')
435-823-4023

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')
Rt 2 Box 2700, Roosevelt, UT 84066

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 ○ (Submit Commingling Application) NO ●

19. SLANT
VERTICAL ○ DIRECTIONAL ● HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	905 FNL 2088 FWL	NENW	25	1.0 S	1.0 W	U
Top of Uppermost Producing Zone	1300 FNL 1500 FWL	NENW	25	1.0 S	1.0 W	U
At Total Depth	1300 FNL 1500 FWL	NENW	25	1.0 S	1.0 W	U

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
905

23. NUMBER OF ACRES IN DRILLING UNIT
640

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
1000

26. PROPOSED DEPTH
MD: 14468 TVD: 14400

27. ELEVATION - GROUND LEVEL
5468

28. BOND NUMBER
400JU0708

29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE
Roosevelt City/Ballard City

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 - 800	54.5	J-55 ST&C	10.5	Class G	1000	1.15	15.8
Surf	12.25	9.625	0 - 3400	40.0	N-80 LT&C	10.5	Type V	606	2.37	12.0
							Class G	195	1.3	14.3
I1	8.75	7	0 - 10368	29.0	HCP-110 LT&C	10.1	Class G	549	1.91	12.5
							Class G	244	1.64	13.0
L1	6.125	5	10168 - 14468	18.0	HCP-110 LT&C	13.7	Class G	254	1.47	14.2

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

- ☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ☑ COMPLETE DRILLING PLAN
- ☑ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ☑ TOPOGRAPHICAL MAP

NAME Maria S. Gomez | **TITLE** Principal Regulatory Analyst | **PHONE** 713 997-5038

SIGNATURE | **DATE** 09/09/2014 | **EMAIL** maria.gomez@epenergy.com

API NUMBER ASSIGNED
43047547350000

APPROVAL
Permit Manager

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Hamaker 3-25A1
Sec. 25, T1S, R1W
UINTAH COUNTY, UT

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. **Estimated Tops of Important Geologic Markers**

Formation	Depth
Green River (GRRV)	5,600' TVD
Green River (GRTN1)	7,012' TVD
Mahogany Bench	7,651' TVD
L. Green River	8,900' TVD
Wasatch	9,886' TVD
T.D. (Permit)	14,400' TVD / +/-14,468' MD

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

Substance	Formation	Depth
	Green River (GRRV)	5,635' MD / 5,600' TVD
	Green River (GRTN1)	7,077' MD / 7,012' TVD
	Mahogany Bench	7,719' MD / 7,651' TVD
Oil	L. Green River	8,968' MD / 8,900' TVD
Oil	Wasatch	9,954' MD / 9,886' TVD

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3. **Pressure Control Equipment:** (Schematic Attached)

A 4.5" by 20.0" Diverter Stack on structural pipe from surface to 800' MD/TVD. A 4.5" by 13-3/8" Diverter Stack w/ Rotating Head from 800' MD/TVD to 3,400' MD/TVD on Conductor. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 3,400' MD/TVD to 10,368' MD / 10,300' TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 10,368' MD / 10,300' TVD to TD (+/- 14,468' MD / 14,400' 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 nippled 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

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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 rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams 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 800' - TD
B) Mud logger with gas monitor – 3,400' to TD
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

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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	10.5
Intermediate	WBM	9.5 – 10.1
Production	WBM	11.0 – 13.7

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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: 3,400' MD/TVD – TD
Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from surface casing shoe to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 14,400' TVD equals approximately 10,259 psi. This is calculated based on a 0.7124 psi/ft gradient (13.7 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 7,091 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 10,300' TVD = 8,240 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 7,091 psi.

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

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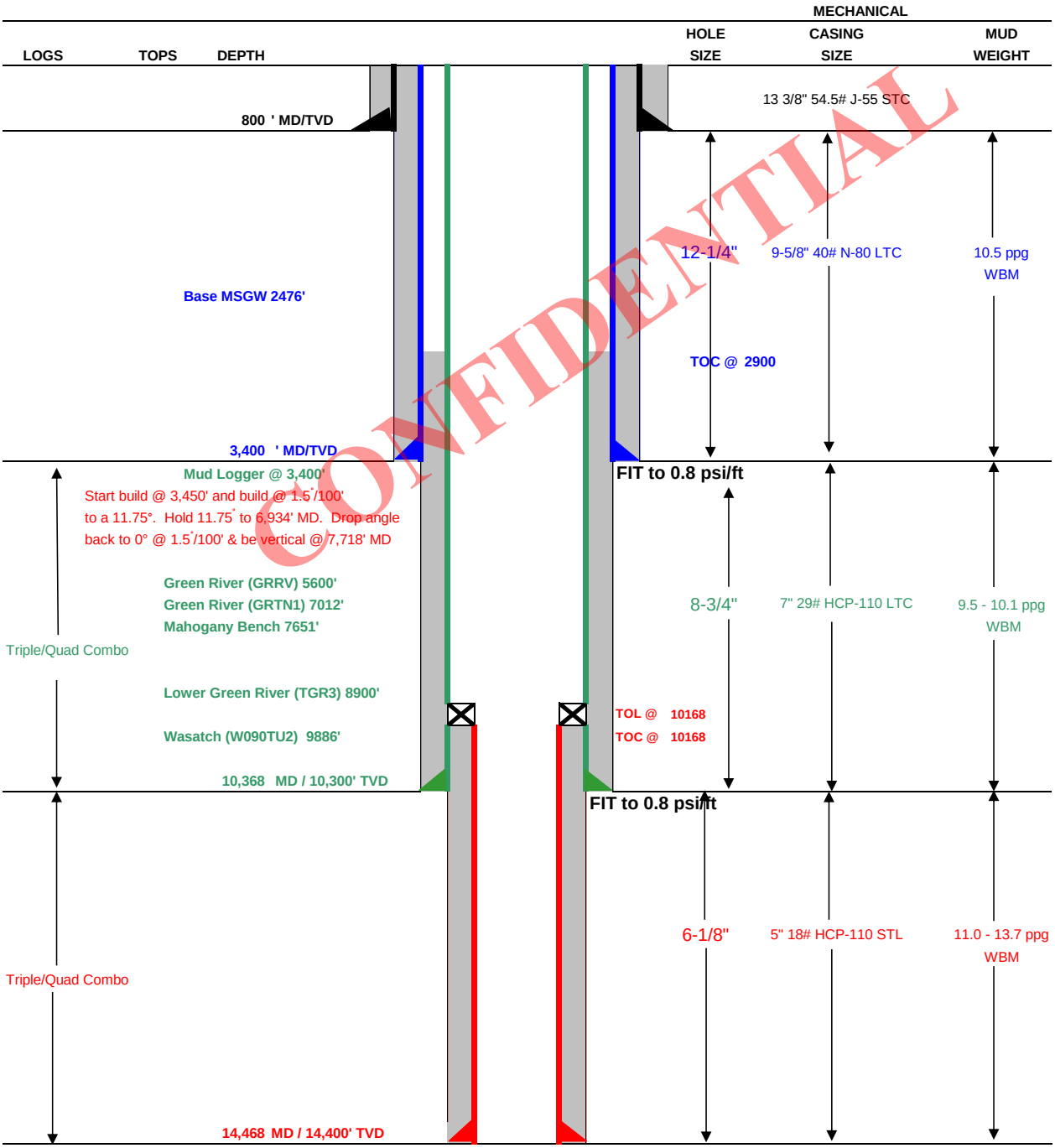
EP ENERGY

Drilling Schematic

Company Name:	EP ENERGY	**Date:**	September 6, 2014
Well Name:	Hamaker 3-25A1	**TD:**	14,468
Field, County, State:	Altamont, Uintah, Utah	**AFE #:**	TBD
Surface Location:	Sec 25 T1S R1W 905' FNL 2088' FWL	**BHL:**	Sec 25 T1S R1W 1300' FNL 1500' FWL
Objective Zone(s):	Green River, Wasatch	**Elevation:**	5458.6
Rig:	Precision 406	**Spud (est.):**	TBD

BOPE Info: 4.5 x 13 3/8 Diverter System w/ rotating head from 800' to 3,400' 11 10M BOPE w/ rotating head & 5M annular from 3,400' to 10,368' 11 10M BOPE w/ rotating head, spacer spool, 5M annular, flex rams, blind rams, single w/ flex rams from 10,368' to TD



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DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	800	54.5	J-55	STC	2,740	1,130	514
SURFACE	9-5/8"	0	3400	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	10368	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5"	10168	14468	18.00	HCP-110	STL	13,940	15,450	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		800	Class G + 3% CACL2	1000	100%	15.8 ppg	1.15
SURFACE	Lead	2,900	EXTENDACEM SYSTEM: Type V Cement + 2% Cal-Seal 60 + 0.35% Versaset + 0.3% D-Air 5000 + 6% Salt + 2% Econolite + 0.125 Poly-E-Flake	606	75%	12.0 ppg	2.377
	Tail	500	HALCEM SYSTEM: Class G Cement + 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.3% D-AIR 5000	195	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	5,468	EXTENDACEM SYSTEM: Class G Cement + 6% Bentonite + 0.2% Econolite + 0.3% Versaset + 0.75% HR-5 + 0.3% Super CBL + 0.2% Halad-322 + 0.125 lb/sk Poly-E-Flake	549	30%	12.5 ppg	1.91
	Tail	2,000	EXPANDACEM SYSTEM: Class G Cement + 4% Bentonite + 0.25 Poly-E-Flake + 0.1% Halad-413 + 5 lb/sk Silicalite Compacted + 0.15% SA-1015 + 0.3% HR-5	244	30%	13.0 ppg	1.64
PRODUCTION LINER		4,300	EXTENDACEM SYSTEM: Class G Cement + 0.2% Super CBL + 0.55% SCR-100 + 0.3% Halad-413 + 0.125 lbm/sk Poly-E-Flake + 3 lbm/sk Silicalite Compacted + 20% SS-200 + 0.10% SA-1015	254	25%	14.20	1.47

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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. 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 +/-8,900'.
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

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EP ENERGY E&P COMPANY, L.P.

HAMAKER 3-25A1 LOCATION

SECTION 25, T1S, R1W, U.S.B.&M.

PROCEED IN AN EASTERLY DIRECTION FROM ROOSEVELT, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.0 MILES TO THE INTERSECTION OF THIS ROAD AND 3500 E TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 5.2 MILES TO THE INTERSECTION OF THIS ROAD AND 5000 N TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE HAMAKER 3-25A1 LOCATION TO THE SOUTHEAST; TURN LEFT AND FOLLOW THE PROPOSED ROAD STAKES IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 934' TO THE PROPOSED HAMAKER 3-25A1 LOCATION.

TOTAL DISTANCE FROM ROOSEVELT, UTAH TO THE PROPOSED HAMAKER 3-25A1 LOCATION IS APPROXIMATELY 9.0 MILES.

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API Well Number: 43047547350000

Location Photos

Center Stake
Looking Southerly

Date Photographed:	08-22-14
Photographed By :	M.C.

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Access
Looking Southerly

Date Photographed:	08-22-14
Photographed By :	M.C.

Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

DRAWN BY:	D.C.R.	REVISED:	08-28-14 A.P.C.
DATE:	07-30-14		

EP ENERGY E&P COMPANY, L.P.

Proposed Hamaker 3-25A1
Sec. 25, T1S, R1W, U.S.B.&M.
Uintah County, UT.

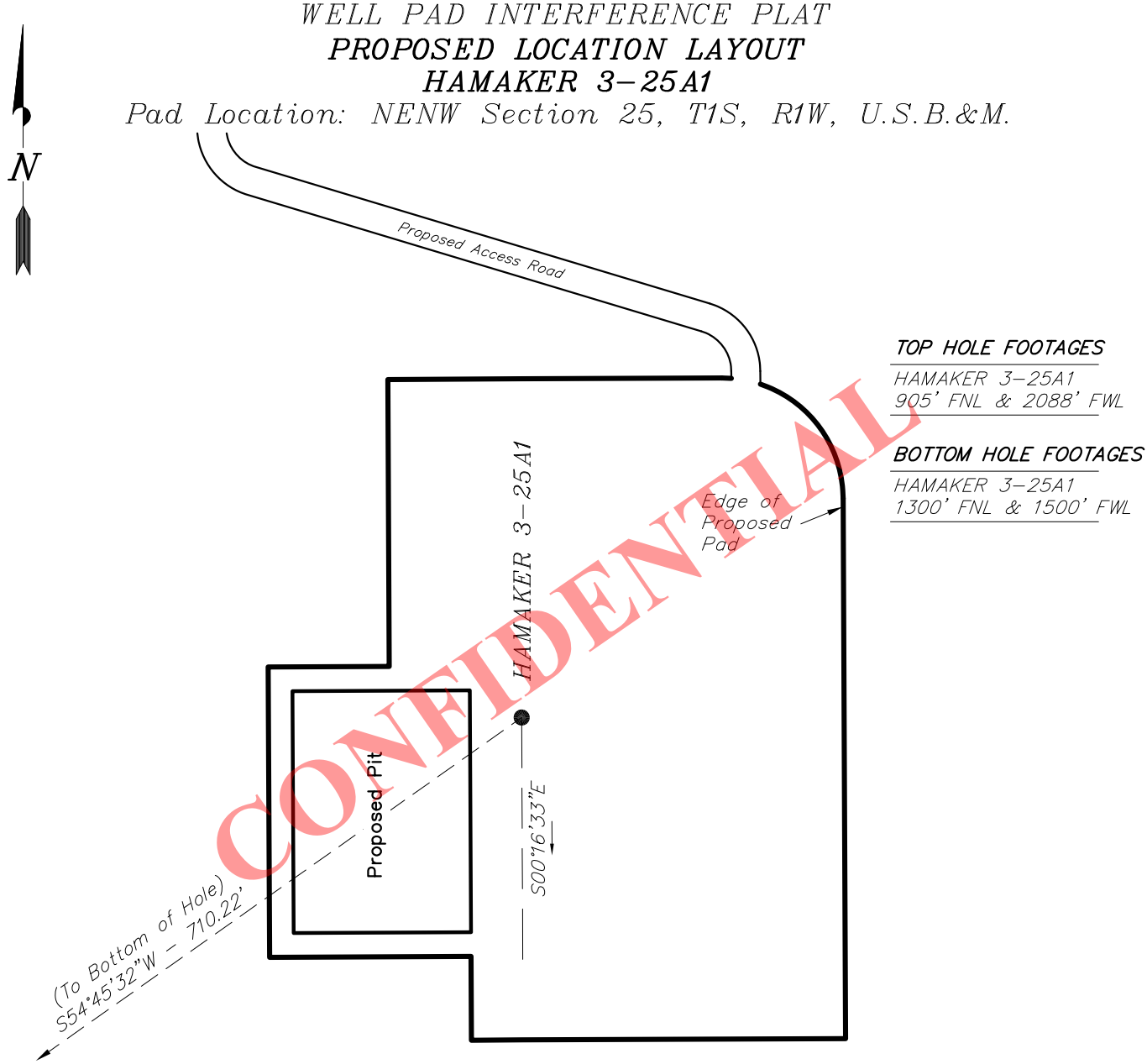
COLOR PHOTOGRAPHS

SHEET P1

EP ENERGY E&P COMPANY, L.P.

WELL PAD INTERFERENCE PLAT
PROPOSED LOCATION LAYOUT
HAMAKER 3-25A1

Pad Location: NENW Section 25, T1S, R1W, U.S.B.&M.



Note:
Bearings are based on GPS Observations.

LATITUDE & LONGITUDE Surface Position of Wells (NAD 83)		
WELL	LATITUDE	LONGITUDE
HAMAKER 3-25A1	40° 22' 20.11"	109° 56' 48.13"

RELATIVE COORDINATES From Top Hole to Bottom Hole		
WELL	NORTH	EAST
HAMAKER 3-25A1	-410'	-580'

LATITUDE & LONGITUDE Bottom Hole Position (NAD 83)		
WELL	LATITUDE	LONGITUDE
HAMAKER 3-25A1	40° 22' 16.16"	109° 56' 55.71"

SURVEYED BY:	M.C.	DATE SURVEYED:	08-22-14
DRAWN BY:	L.K.	DATE DRAWN:	08-25-14
SCALE:	1" = 100'	REVISED:	

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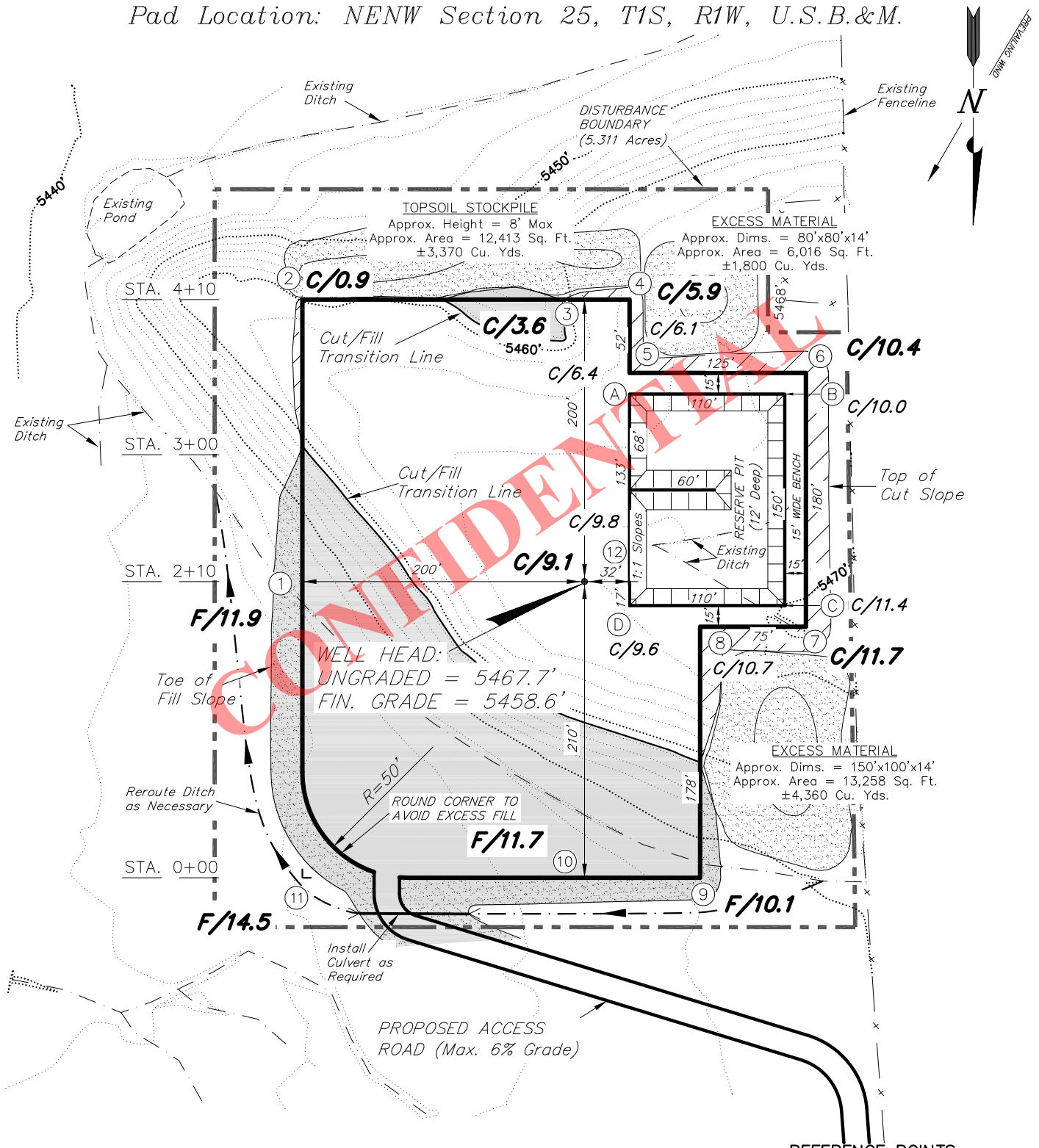
FIGURE #1

PROPOSED LOCATION LAYOUT

HAMAKER 3-25A1

Pad Location: NENW Section 25, T1S, R1W, U.S.B.&M.



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NOTE:
The topsoil & excess material areas are calculated as being mounds containing 9,530 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

Note:
Topsoil to be Stripped from all New Construction Areas and Proposed Stockpile Locations

REFERENCE POINTS

250' SOUTHERLY	5461.3'
300' SOUTHERLY	5450.3'
250' EASTERLY	5443.5'
300' EASTERLY	5442.3'

SURVEYED BY:	M.C.	DATE SURVEYED:	08-22-14
DRAWN BY:	L.K.	DATE DRAWN:	07-29-14
SCALE:	1" = 100'	REVISED:	L.K. 08-25-14

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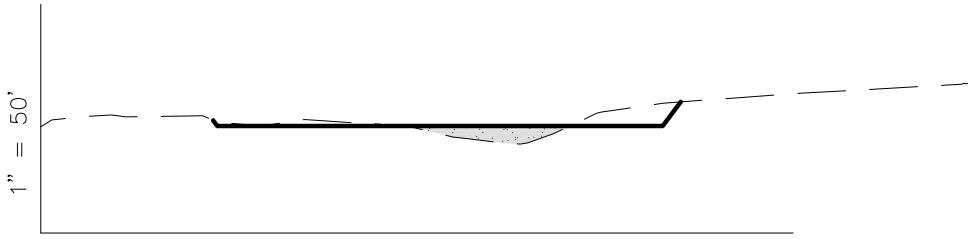
FIGURE #2

CROSS SECTIONS

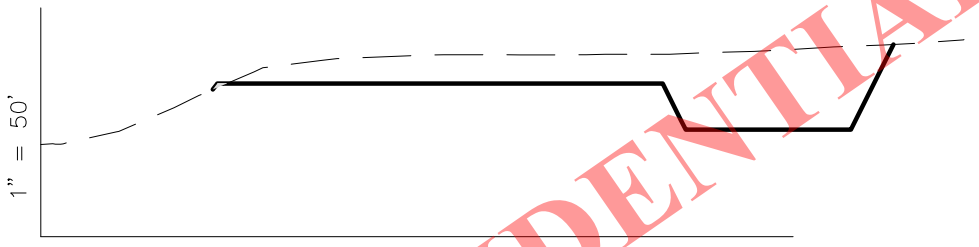
HAMAKER 3-25A1

Pad Location: NENW Section 25, T1S, R1W, U.S.B.&M.



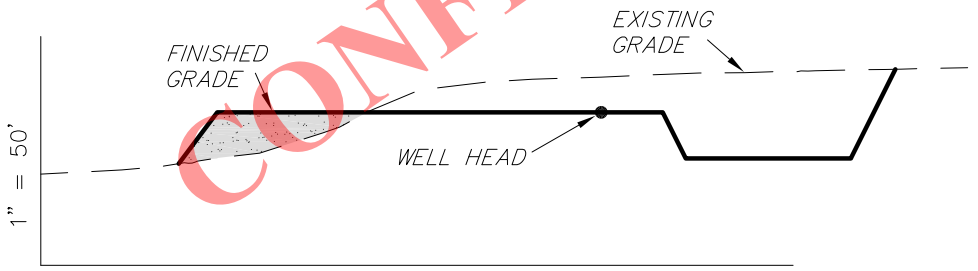
1" = 100'

STA. 4+10



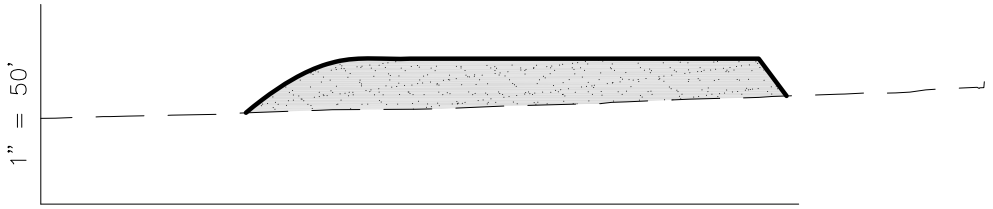
1" = 100'

STA. 3+00



1" = 100'

STA. 2+10



1" = 100'

STA. 0+00

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NOTE:
UNLESS OTHERWISE NOTED ALL CUT/FILL SLOPES ARE AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES
(No Shrink or swell adjustments have been used)
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	20,120	20,120	Topsoil is not included in Pad Cut Volume	0
PIT	5,600	0		5,600
TOTALS	25,720	20,120	3,060	5,600

SURVEYED BY:	M.C.	DATE SURVEYED:	08-22-14
DRAWN BY:	L.K.	DATE DRAWN:	07-29-14
SCALE:	1" = 100'	REVISED:	L.K. 08-25-14

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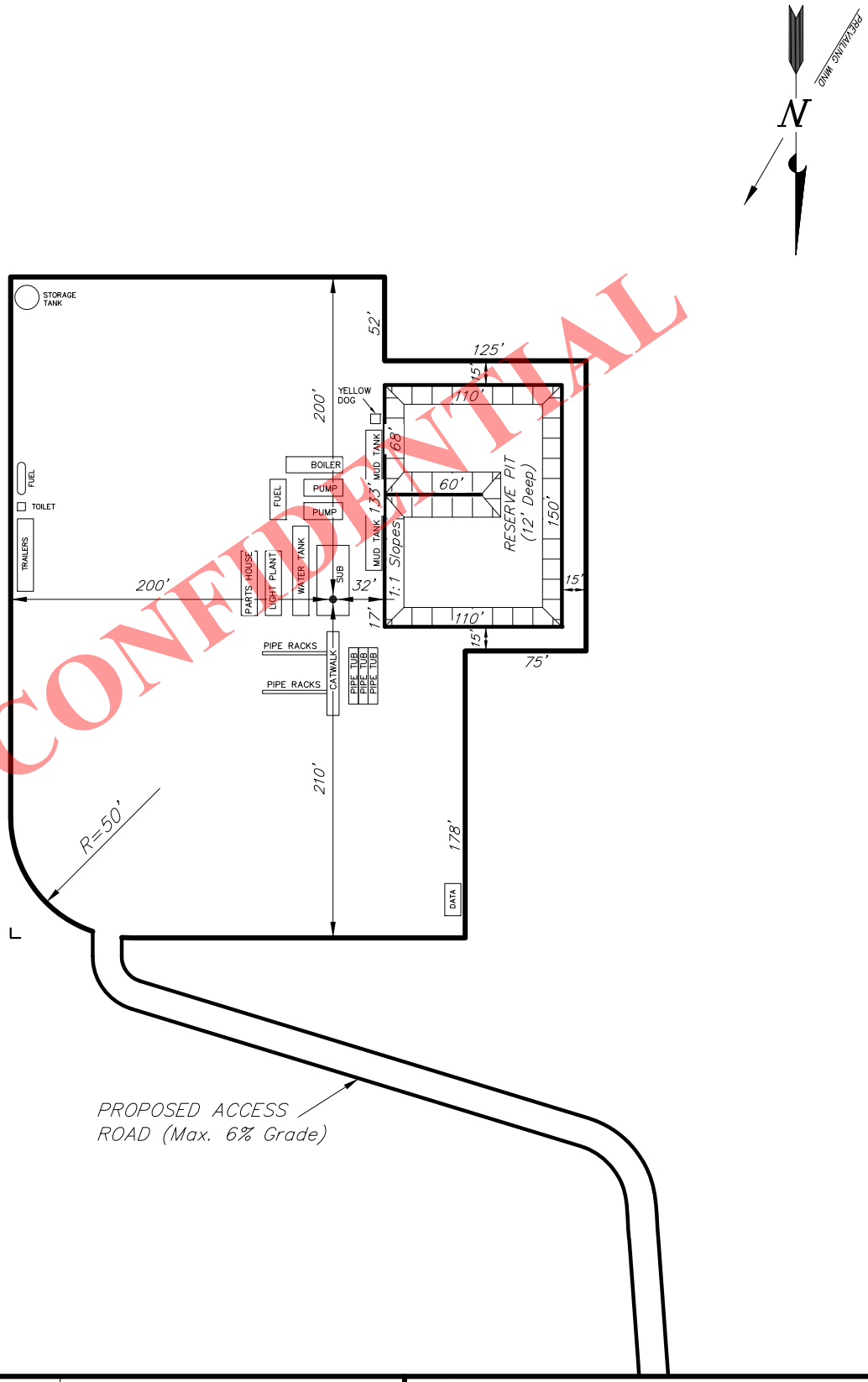
EP ENERGY E&P COMPANY, L.P.

TYPICAL RIG LAYOUT

HAMAKER 3-25A1

Pad Location: NENW Section 25, T1S, R1W, U.S.B.&M.



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SURVEYED BY:	M.C.	DATE SURVEYED:	08-22-14
DRAWN BY:	L.K.	DATE DRAWN:	07-29-14
SCALE:	1" = 100'	REVISED:	L.K. 08-25-14

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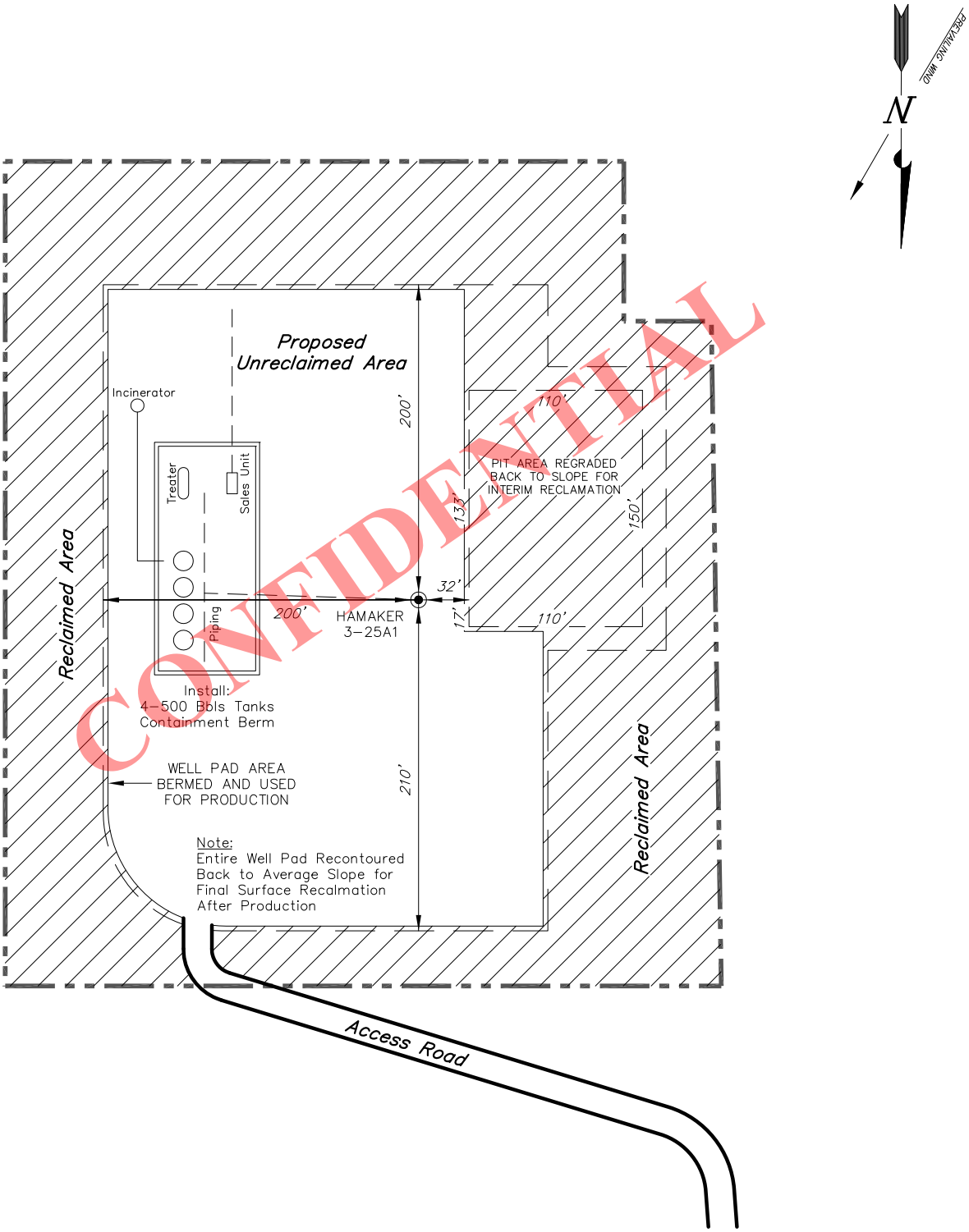
FIGURE #3

RECLAMATION LAYOUT

HAMAKER 3-25A1

Pad Location: NENW Section 25, T1S, R1W, U.S.B.&M.



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Notes:
1. Reclaimed area to include seeding of approved vegetation and sufficient storm water management system.
2. Actual Equipment Layout and Reclaimed Pad Surface Area May Change due to Production Requirements or Site Conditions.

DISTURBED AREA:

TOTAL DISTURBED AREA	=	5.31 ACRES
TOTAL RECLAIMED AREA	=	3.00 ACRES
UNRECLAIMED AREA	=	2.31 ACRES

SURVEYED BY:	M.C.	DATE SURVEYED:	08-22-14
DRAWN BY:	L.K.	DATE DRAWN:	07-29-14
SCALE:	1" = 100'	REVISED:	L.K. 08-25-14

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(435) 781-2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

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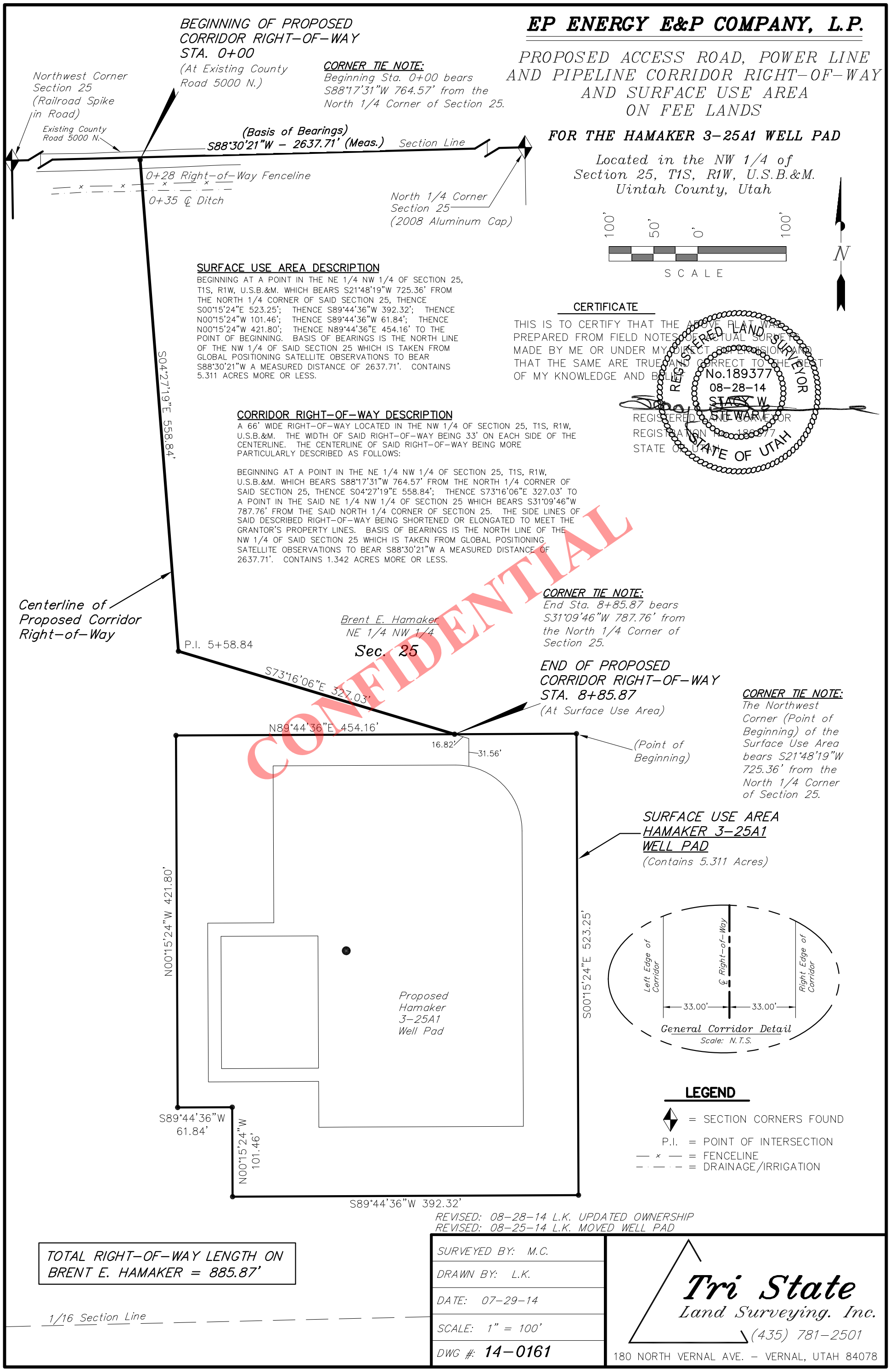
EP ENERGY E&P COMPANY, L.P.

PROPOSED ACCESS ROAD, POWER LINE AND PIPELINE CORRIDOR RIGHT-OF-WAY AND SURFACE USE AREA ON FEE LANDS

FOR THE HAMAKER 3-25A1 WELL PAD

Located in the NW 1/4 of Section 25, T1S, R1W, U.S.B.&M. Uintah County, Utah



SURFACE USE AREA DESCRIPTION

BEGINNING AT A POINT IN THE NE 1/4 NW 1/4 OF SECTION 25, T1S, R1W, U.S.B.&M. WHICH BEARS S21°48'19"W 725.36' FROM THE NORTH 1/4 CORNER OF SAID SECTION 25, THENCE S00°15'24"E 523.25'; THENCE S89°44'36"W 392.32'; THENCE N00°15'24"W 101.46'; THENCE S89°44'36"W 61.84'; THENCE N00°15'24"W 421.80'; THENCE N89°44'36"E 454.16' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS THE NORTH LINE OF THE NW 1/4 OF SAID SECTION 25 WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR S88°30'21"W A MEASURED DISTANCE OF 2637.71'. CONTAINS 5.311 ACRES MORE OR LESS.

CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 66' WIDE RIGHT-OF-WAY LOCATED IN THE NW 1/4 OF SECTION 25, T1S, R1W, U.S.B.&M. THE WIDTH OF SAID RIGHT-OF-WAY BEING 33' ON EACH SIDE OF THE CENTERLINE. THE CENTERLINE OF SAID RIGHT-OF-WAY BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE NE 1/4 NW 1/4 OF SECTION 25, T1S, R1W, U.S.B.&M. WHICH BEARS S88°17'31"W 764.57' FROM THE NORTH 1/4 CORNER OF SAID SECTION 25, THENCE S04°27'19"E 558.84'; THENCE S73°16'06"E 327.03' TO A POINT IN THE SAID NE 1/4 NW 1/4 OF SECTION 25 WHICH BEARS S31°09'46"W 787.76' FROM THE SAID NORTH 1/4 CORNER OF SECTION 25. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS THE NORTH LINE OF THE NW 1/4 OF SAID SECTION 25 WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR S88°30'21"W A MEASURED DISTANCE OF 2637.71'. CONTAINS 1.342 ACRES MORE OR LESS.

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR No.189377 08-28-14 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

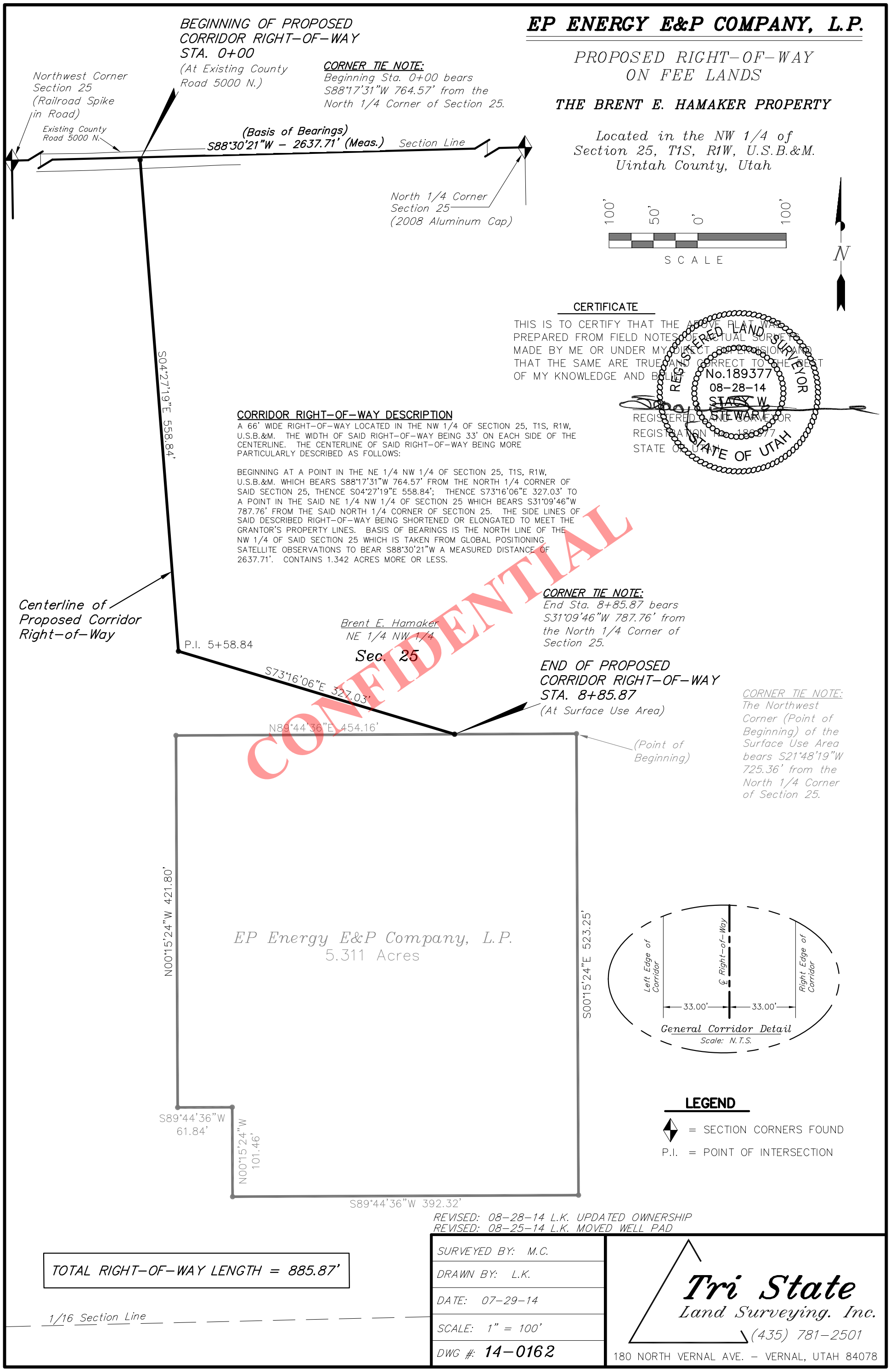
CONFIDENTIAL

EP ENERGY E&P COMPANY, L.P.

PROPOSED RIGHT-OF-WAY ON FEE LANDS

THE BRENT E. HAMAKER PROPERTY

Located in the NW 1/4 of Section 25, T1S, R1W, U.S.B.&M. Uintah County, Utah



CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 66' WIDE RIGHT-OF-WAY LOCATED IN THE NW 1/4 OF SECTION 25, T1S, R1W, U.S.B.&M. THE WIDTH OF SAID RIGHT-OF-WAY BEING 33' ON EACH SIDE OF THE CENTERLINE. THE CENTERLINE OF SAID RIGHT-OF-WAY BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE NE 1/4 NW 1/4 OF SECTION 25, T1S, R1W, U.S.B.&M. WHICH BEARS S88°17'31"W 764.57' FROM THE NORTH 1/4 CORNER OF SAID SECTION 25, THENCE S04°27'19"E 558.84'; THENCE S73°16'06"E 327.03' TO A POINT IN THE SAID NE 1/4 NW 1/4 OF SECTION 25 WHICH BEARS S31°09'46"W 787.76' FROM THE SAID NORTH 1/4 CORNER OF SECTION 25. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS THE NORTH LINE OF THE NW 1/4 OF SAID SECTION 25 WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR S88°30'21"W A MEASURED DISTANCE OF 2637.71'. CONTAINS 1.342 ACRES MORE OR LESS.

CERTIFICATE

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REGISTERED LAND SURVEYOR No.189377 08-28-14 STACY W. STEWART STATE OF UTAH

STACY W. STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

CONFIDENTIAL

REVISED: 08-28-14 L.K. UPDATED OWNERSHIP
REVISED: 08-25-14 L.K. MOVED WELL PAD

TOTAL RIGHT-OF-WAY LENGTH = 885.87'

SURVEYED BY:	M.C.
DRAWN BY:	L.K.
DATE:	07-29-14
SCALE:	1" = 100'
DWG #:	14-0162

Tri State Land Surveying, Inc.
(435) 781-2501
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078

FILE: \\LEWIS\drawings\EP ENERGY\3-25A1 (08-28-14)\dwg\ROAD RIGHT OF WAY ON HAMAKER PRPTY.dwg

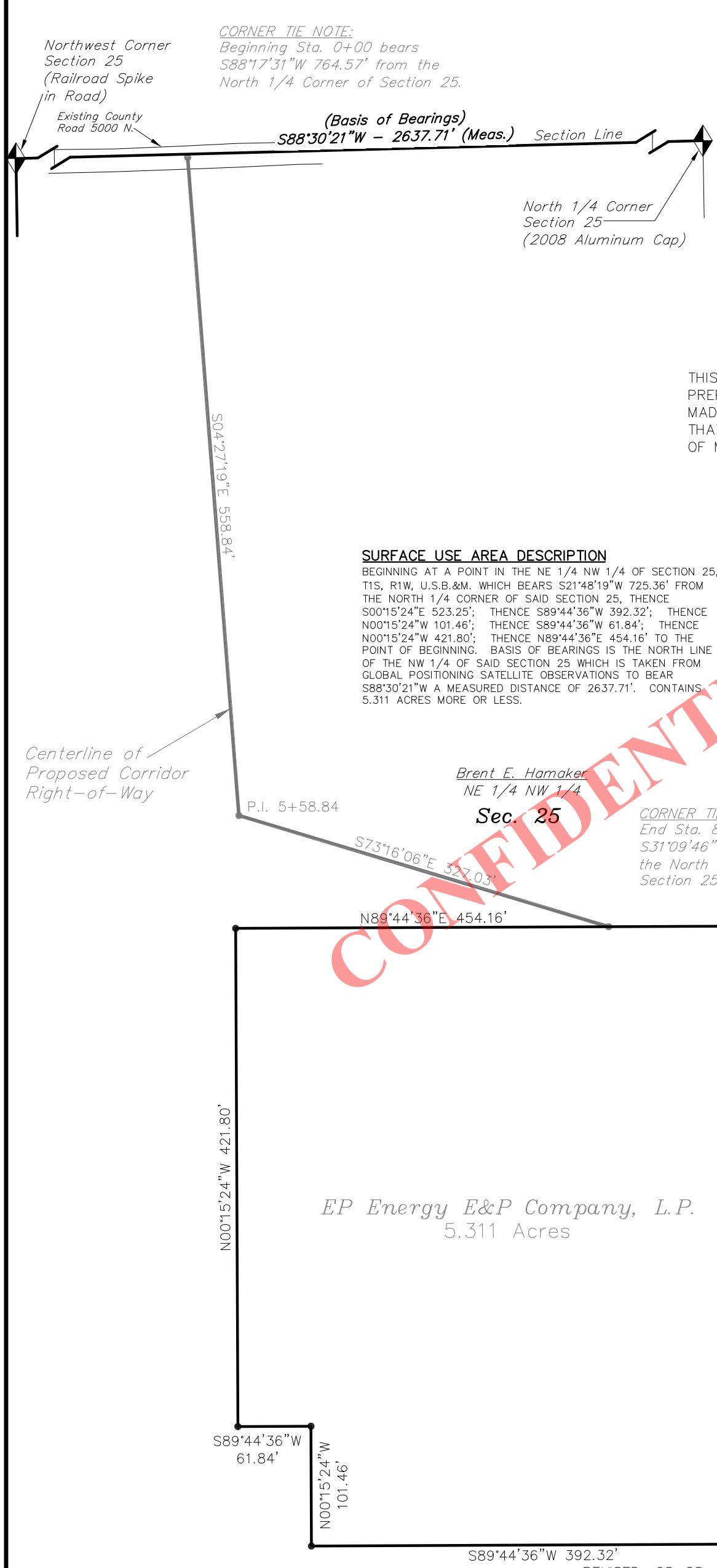
RECEIVED: September 09, 2014

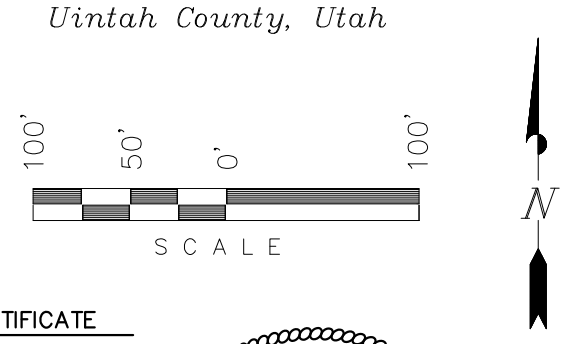
EP ENERGY E&P COMPANY, L.P.

PROPOSED SURFACE USE AREA ON FEE LANDS

THE BRENT E. HAMAKER PROPERTY

Located in the NW 1/4 of Section 25, T1S, R1W, U.S.B.&M. Uintah County, Utah





CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR No.189377 08-28-14 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

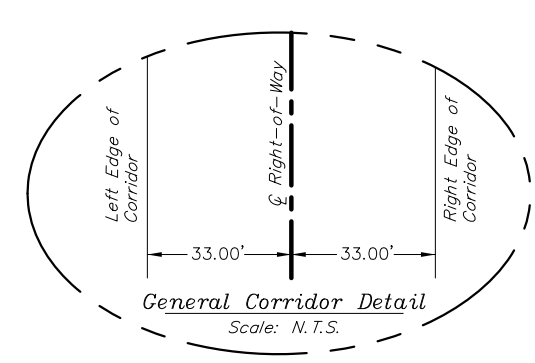
SURFACE USE AREA DESCRIPTION

BEGINNING AT A POINT IN THE NE 1/4 NW 1/4 OF SECTION 25, T1S, R1W, U.S.B.&M. WHICH BEARS S21°48'19"W 725.36' FROM THE NORTH 1/4 CORNER OF SAID SECTION 25, THENCE S00°15'24"E 523.25'; THENCE S89°44'36"W 392.32'; THENCE N00°15'24"W 101.46'; THENCE S89°44'36"W 61.84'; THENCE N00°15'24"W 421.80'; THENCE N89°44'36"E 454.16' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS THE NORTH LINE OF THE NW 1/4 OF SAID SECTION 25 WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR S88°30'21"W A MEASURED DISTANCE OF 2637.71'. CONTAINS 5.311 ACRES MORE OR LESS.

CONFIDENTIAL

CORNER TIE NOTE: The Northwest Corner (Point of Beginning) of the Surface Use Area bears S21°48'19"W 725.36' from the North 1/4 Corner of Section 25.

SURFACE USE AREA
EP ENERGY E&P COMPANY L.P.
(Contains 5.311 Acres)



General Corridor Detail
Scale: N.T.S.

LEGEND

= SECTION CORNERS FOUND

P.I. = POINT OF INTERSECTION

REVISED: 08-28-14 L.K. UPDATED OWNERSHIP
REVISED: 08-25-14 L.K. MOVED WELL PAD

SURVEYED BY:	M.C.
DRAWN BY:	L.K.
DATE:	07-29-14
SCALE:	1" = 100'
DWG #:	14-0163

Tri State Land Surveying, Inc.
(435) 781-2501
180 NORTH VERNAL AVE. – VERNAL, UTAH 84078

FILE: \\LEWIS\drawings\EP ENERGY\3-25A1 (08-28-14)\dwg\SURFACE USE AREA.dwg

RECEIVED: September 09, 2014

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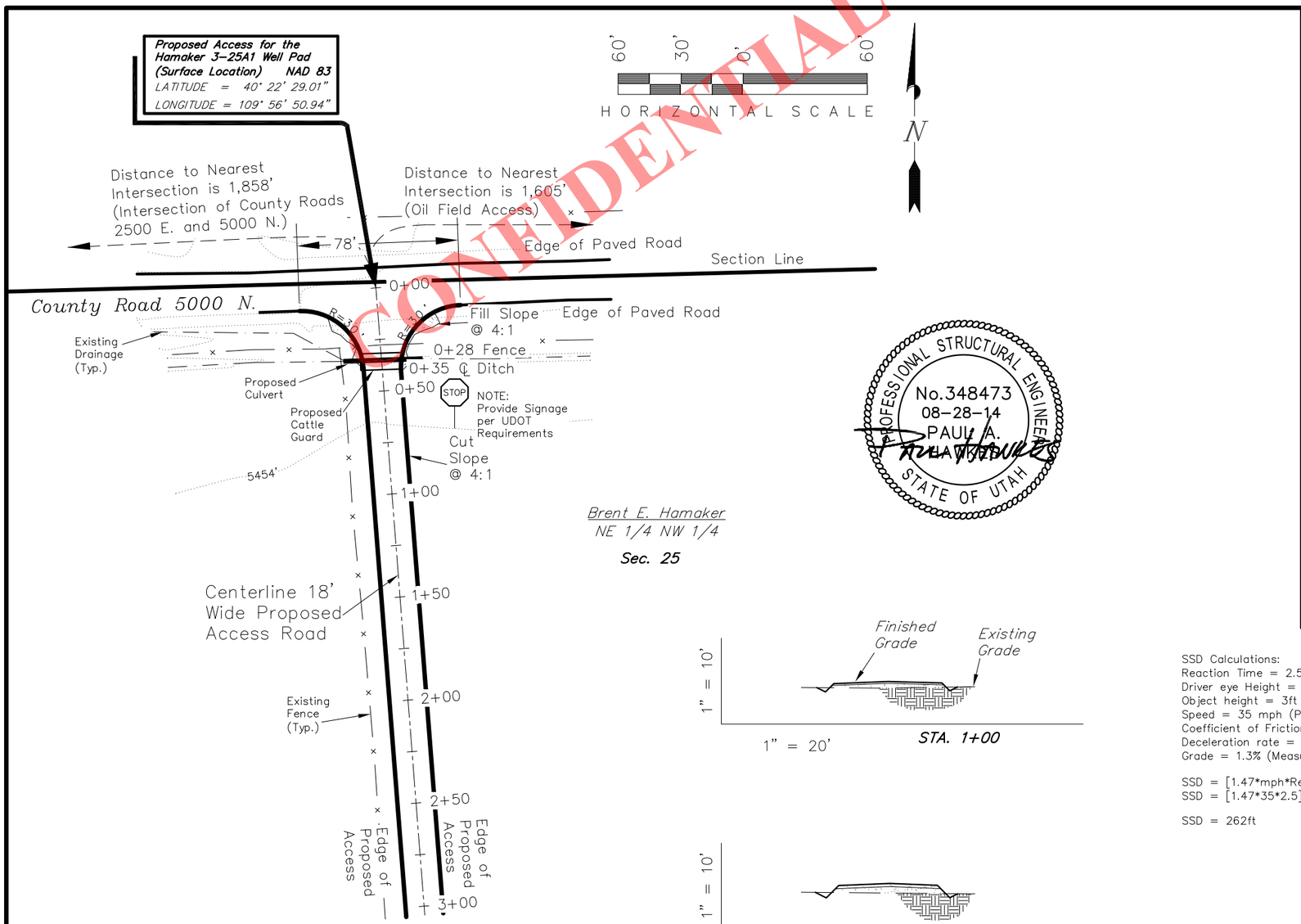
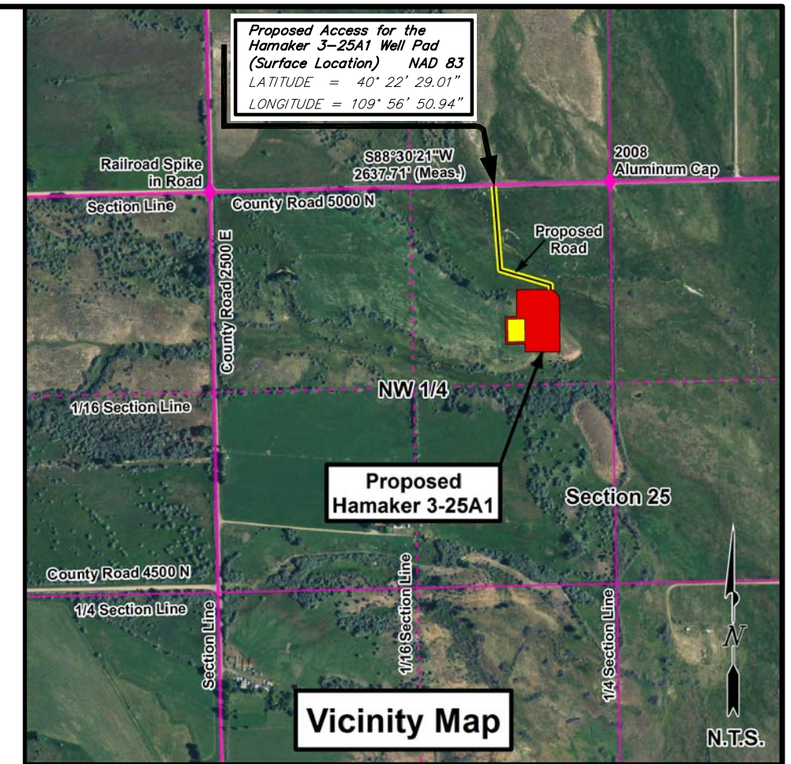
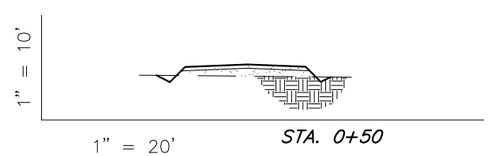






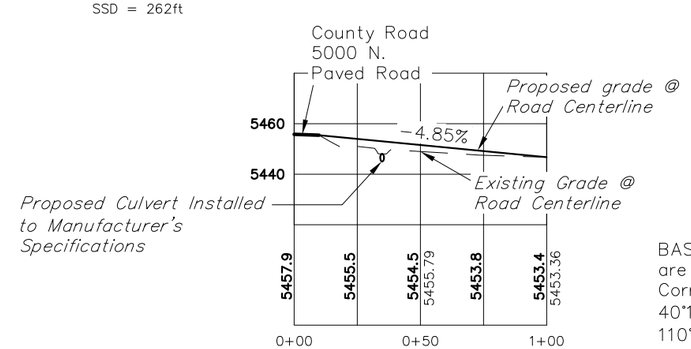
Road Sections

Scale: Horiz. 1"=20', Vert. 1" = 10'

SSD Calculations:
Reaction Time = 2.5 sec (AASHTO standard)
Driver eye Height = 5ft (Truck)
Object height = 3ft (AASHTO intersection standard)
Speed = 35 mph (Posted Speed Limit)
Coefficient of Friction = 0.32 (Taken from AASHTO)
Deceleration rate = 6.1fps (Truck)
Grade = 1.3% (Measured)

SSD = [1.47*mph*Reaction Time] + [(mph)² / (30 (friction−grade))]
SSD = [1.47*35*2.5] + [(35)² / (30*(0.32−0.013))]

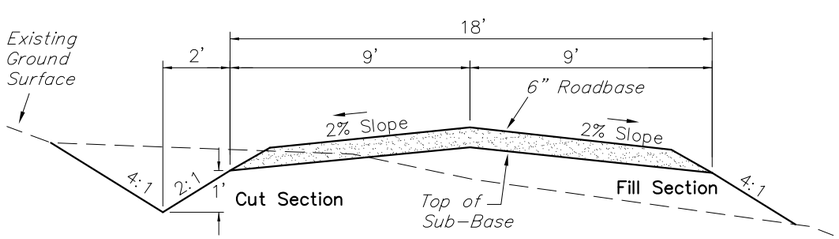
SSD = 262ft



Road Profile

Scale: Horiz. 1"=60', Vert. 1" = 30'

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°17'45.87" LONG. 110°23'30.60" (Tristate Aluminum Cap) NAD 83 Elev. 6604.28'



Typical Road Section

Not to Scale

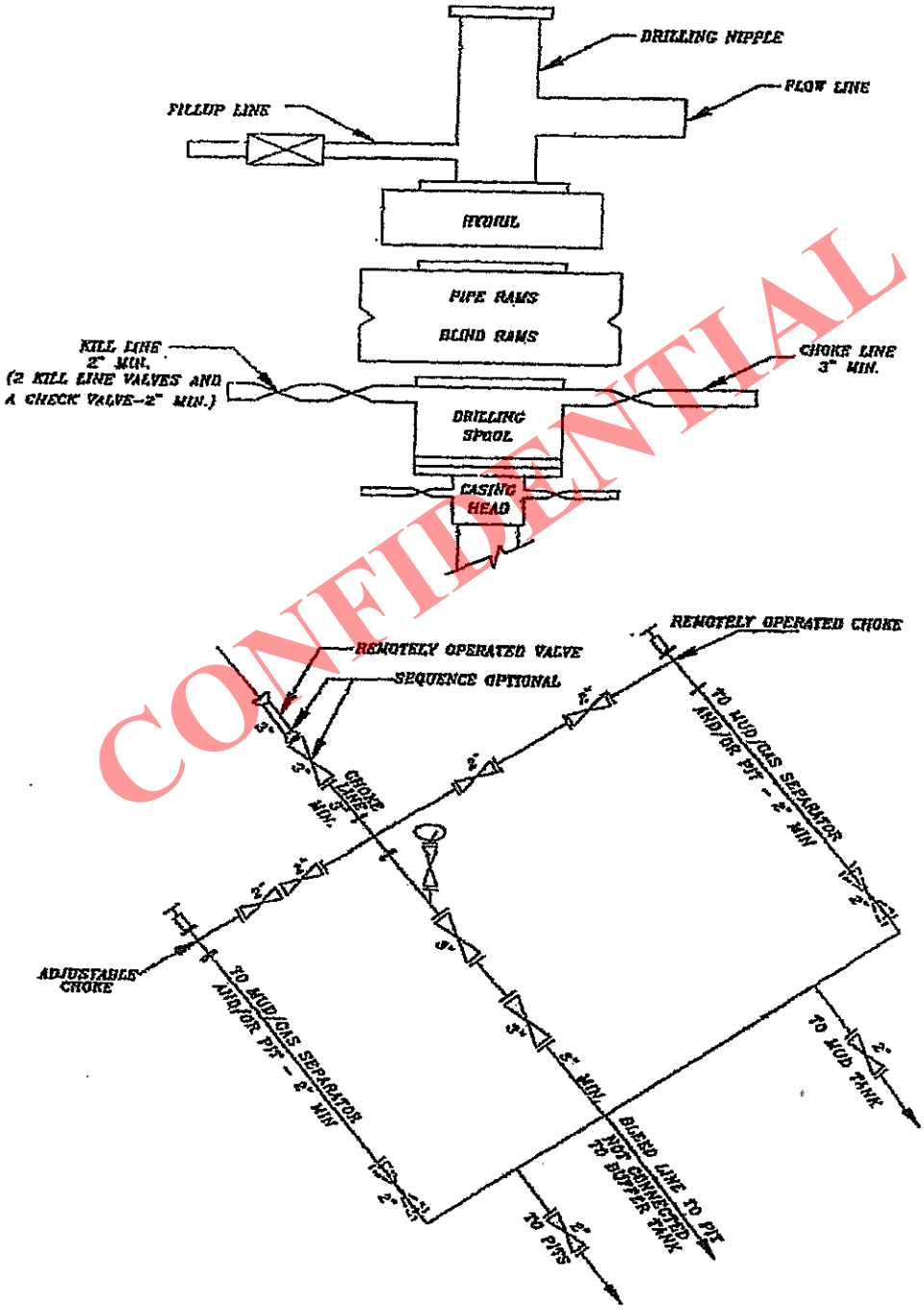
REVISED: 08-28-14 L.K. UPDATED OWNERSHIP

EP ENERGY E&P COMPANY, L.P.	SURVEYED BY: M.C.	DATE SURVEYED: 08-22-14	Tri State Land Surveying, Inc. (435) 781-2501
PROPOSED ACCESS ROAD FOR THE HAMAKER 3-25A1 WELL PAD LOCATED IN SECTION 25, T1S, R1W, U.S.B.&M. UINTAH COUNTY, UTAH	DRAWN BY: L.K.	DATE DRAWN: 08-25-14	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
	SCALE: AS SHOWN	DWG #: #14-0167	

FILE: \\LEWIS\drawings\EP ENERGY\3-25A1 (08-28-14)\dwg\APPROACH.dwg

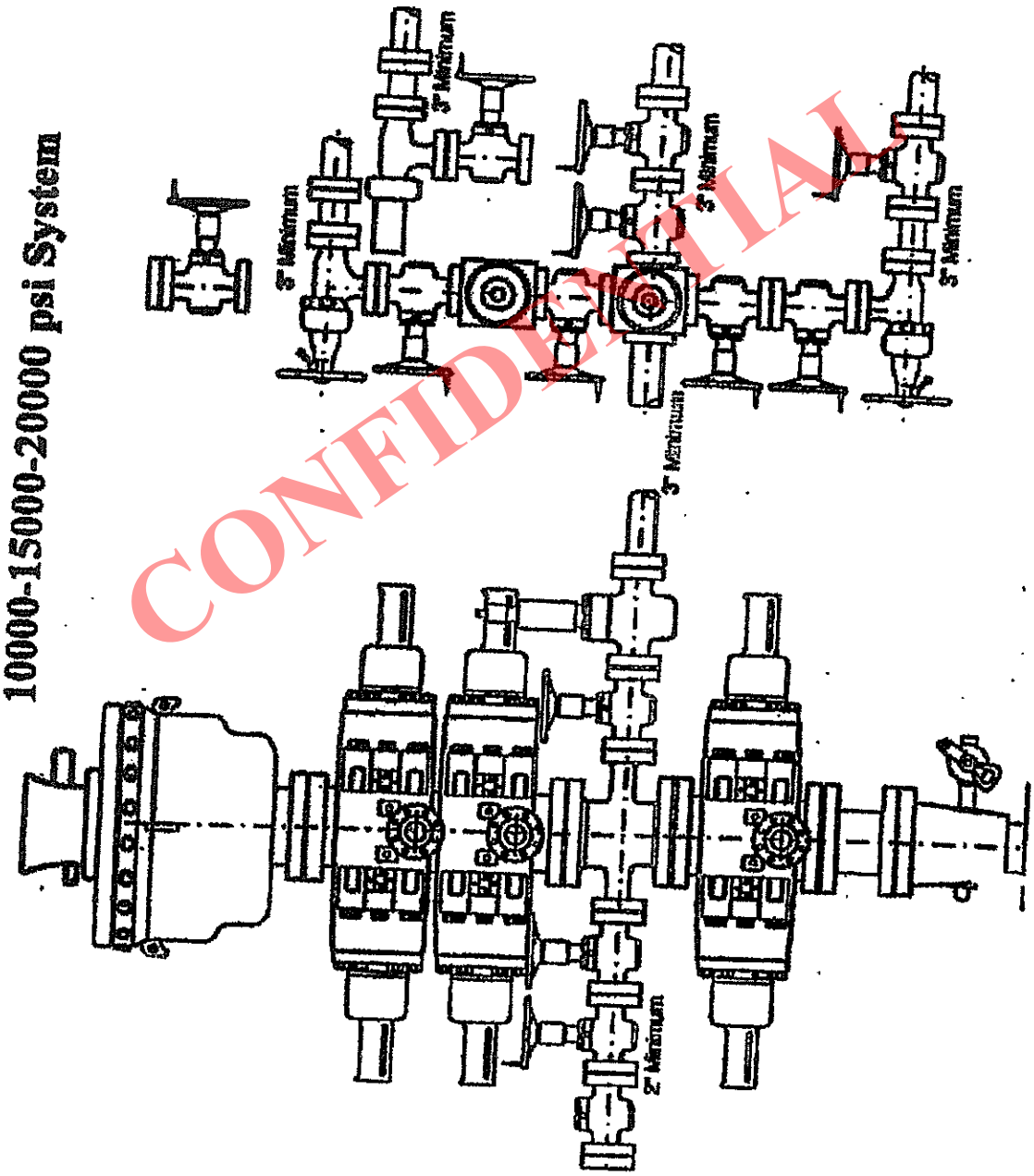
RECEIVED: September 09, 2014

5M BOP STACK and CHOKE MANIFOLD SYSTEM



CONFIDENTIAL

10000-15000-20000 psi System



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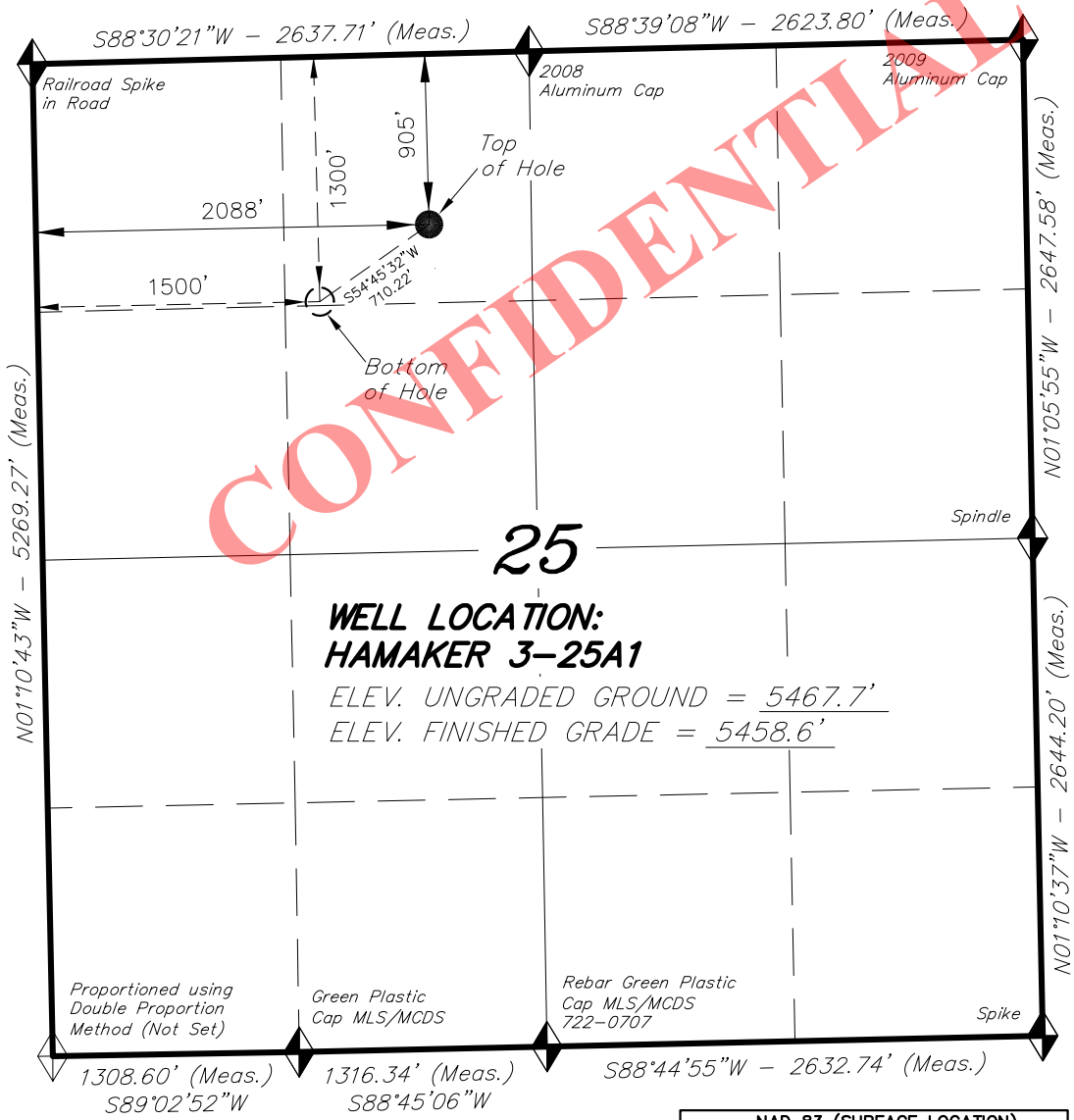
T1S, R1W, U.S.B.&M.



CONFIDENTIAL

EP ENERGY E&P COMPANY, L.P.

WELL LOCATION, HAMAKER 3–25A1, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 25, T1S, R1W, U.S.B.&M. UINTAH COUNTY, UTAH.

TARGET BOTTOM HOLE, HAMAKER 3–25A1, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 25, T1S, R1W, U.S.B.&M. UINTAH COUNTY, UTAH.

1000' 500' 0' 1000'
BAR SCALE

N

NOTES:

1. *Well footages are measured at right angles to the Section Lines.*
2. *Bearings are based on Global Positioning Satellite observations.*

◆ = SECTION CORNERS LOCATED

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR No.189377 08–25–14 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°17'45.87" LONG. 110°23'30.60" (Tristate Aluminum Cap) NAD 83 Elev. 6604.28'

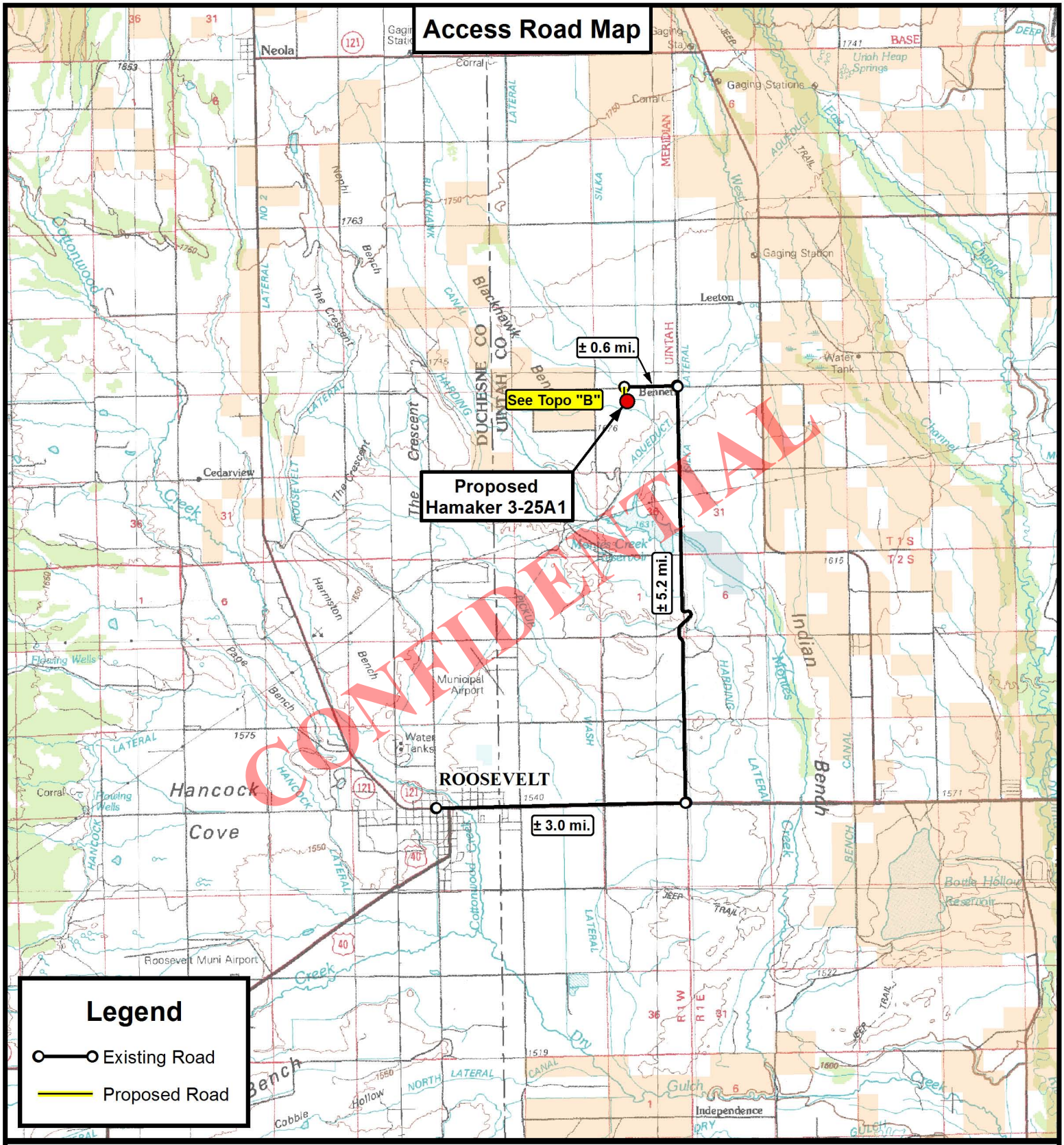
NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°22'20.11"	(40.372253°)
LONGITUDE = 109°56'48.13"	(109.946702°)
NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°22'20.26"	(40.372296°)
LONGITUDE = 109°56'45.59"	(109.945996°)
NAD 83 (BOTTOM HOLE LOCATION)	
LATITUDE = 40°22'16.16"	(40.371156°)
LONGITUDE = 109°56'55.71"	(109.948808°)
NAD 27 (BOTTOM HOLE LOCATION)	
LATITUDE = 40°22'16.32"	(40.371199°)
LONGITUDE = 109°56'53.17"	(109.948103°)

TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. – VERNAL, UTAH 84078
(435) 781–2501

DATE SURVEYED: 08–22–14	SURVEYED BY: M.C.
DATE DRAWN: 07–29–14	DRAWN BY: L.K.
REVISED: 08–25–14 L.K.	SCALE: 1" = 1000'

RECEIVED: September 09, 2014

API Well Number: 43047547350000



THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

EP ENERGY E&P COMPANY, L.P.

Proposed Hamaker 3-25A1
Sec. 25, T1S, R1W, U.S.B.&M.
Uintah County, UT.

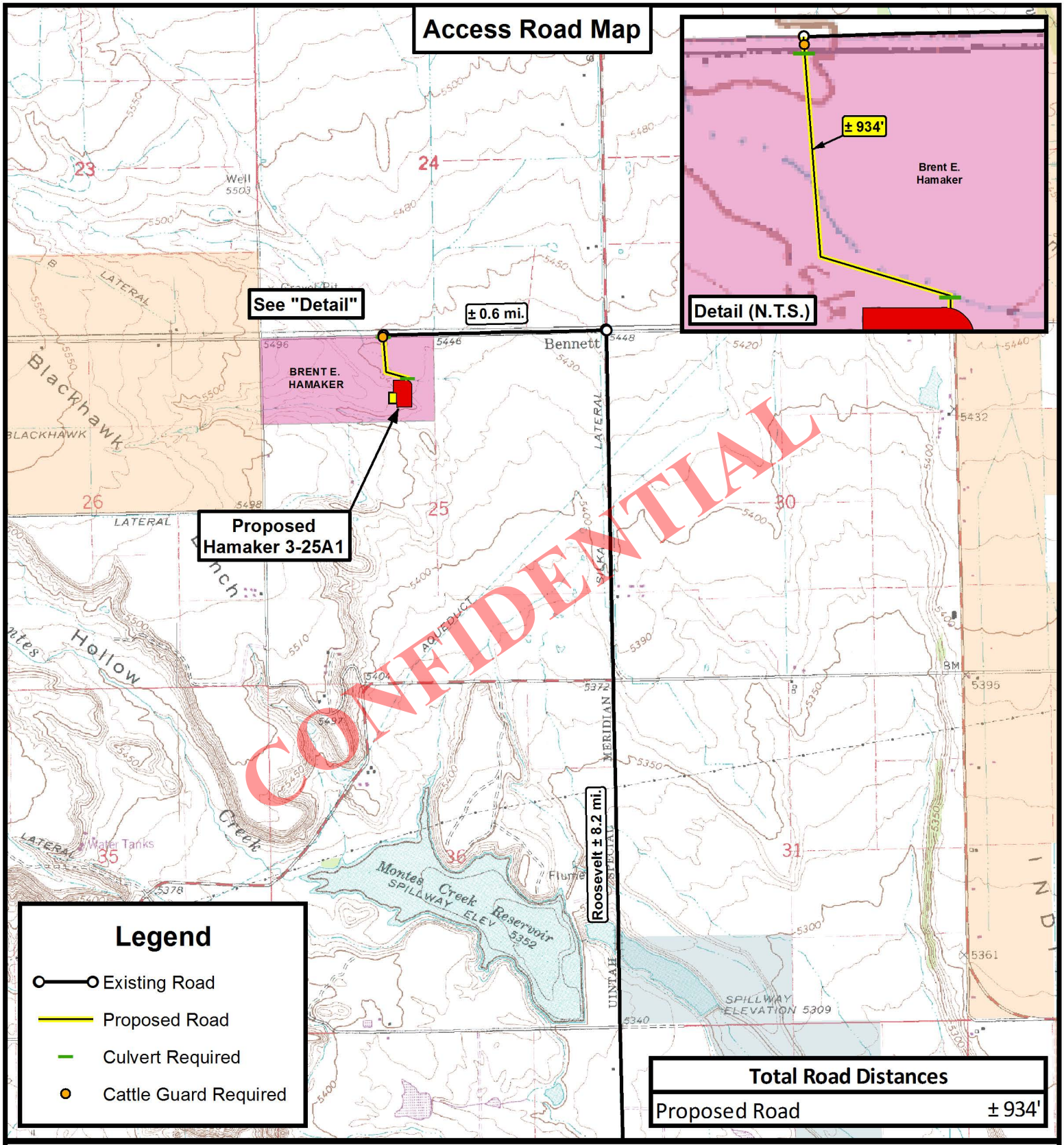
DRAWN BY:	D.C.R.	REVISED:	08-28-14 A.P.C.
DATE:	07-30-14		
SCALE:	1:100,000		

TOPOGRAPHIC MAP

SHEET A

API Well Number: 43047547350000

Access Road Map



Legend

- Existing Road
- Proposed Road
- Culvert Required
- Cattle Guard Required

Total Road Distances	
Proposed Road	± 934'

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

Tri State Land Surveying, Inc.
P: (435) 781-2501
F: (435) 781-2518
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

N

EP ENERGY E&P COMPANY, L.P.

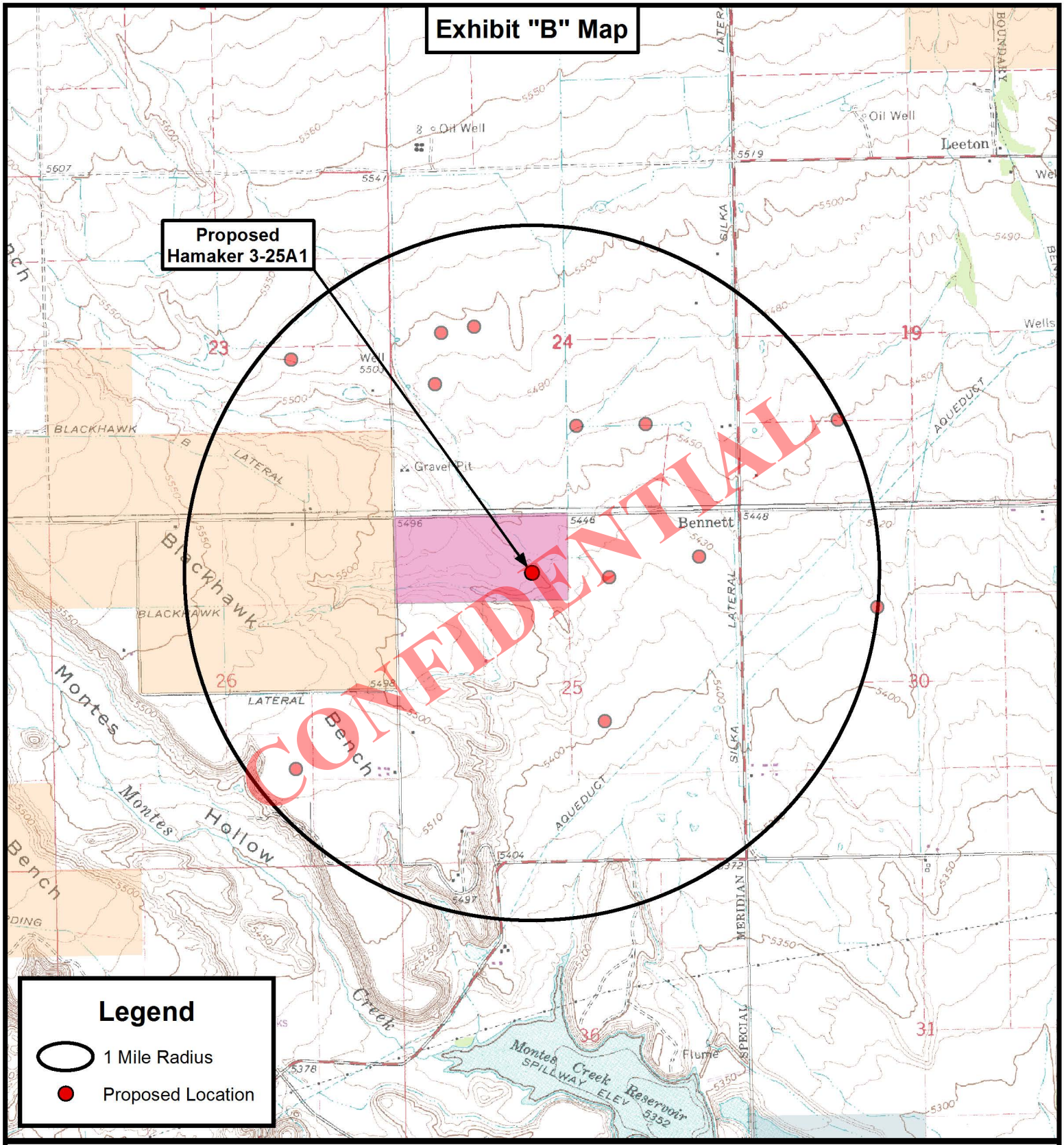
Proposed Hamaker 3-25A1
Sec. 25, T1S, R1W, U.S.B.&M.
Uintah County, UT.

DRAWN BY:	D.C.R.	REVISED:	08-28-14 A.P.C.
DATE:	07-30-14		
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET B

API Well Number: 43047547350000



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Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

EP ENERGY E&P COMPANY, L.P.

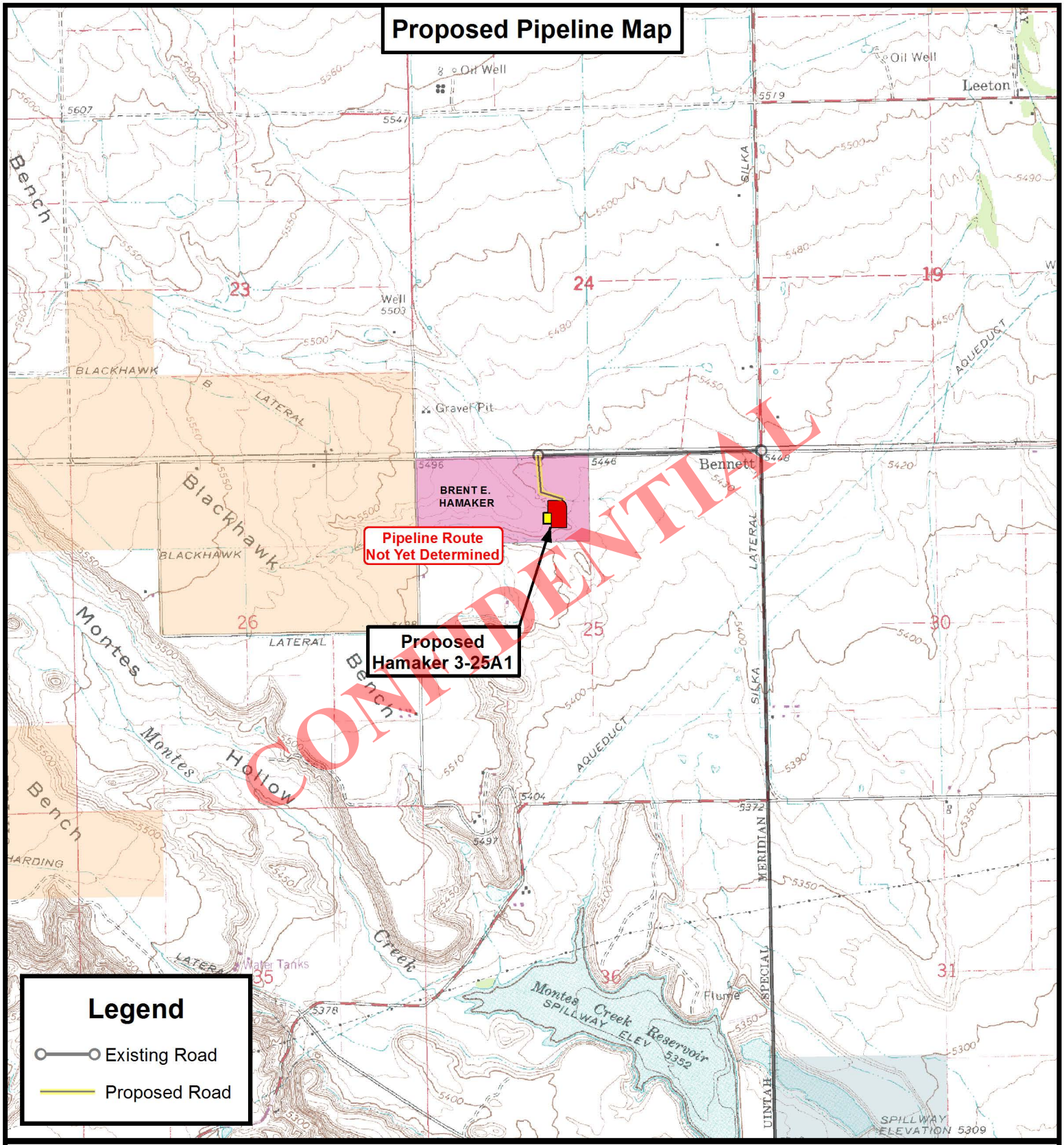
Proposed Hamaker 3-25A1
Sec. 25, T1S, R1W, U.S.B.&M.
Uintah County, UT.

DRAWN BY:	D.C.R.	REVISED:	08-28-14 A.P.C.
DATE:	07-30-14		
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET C

API Well Number: 43047547350000



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Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

EP ENERGY E&P COMPANY, L.P.

Proposed Hamaker 3-25A1
Sec. 25, T1S, R1W, U.S.B.&M.
Uintah County, UT.

DRAWN BY:	D.C.R.	REVISED:	08-28-14 A.P.C.
DATE:	07-30-14		
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET D

5D Plan Report

EP ENERGY

Field Name: *UTAH_ CENTRAL ZONE_NAD83*
Site Name: *HAMAKER 3-25A1*
Well Name: *HAMAKER 3-25A1*
Plan: *PLAN 1*

05 September 2014

CONFIDENTIAL

Weatherford®

RECEIVED: September 09, 2014

API Well Number: 43047547350000

EP ENERGY

Weatherford

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Plan Data for HAMAKER 3-25A1

Field: UTAH_ CENTRAL ZONE_NAD83
Map Unit: USFt Vertical Reference Datum (VRD):
Projected Coordinate System: NAD83 / Utah Central (ftUS)

Site: HAMAKER 3-25A1
Unit: USFeet TVD Reference:
Company Name: EP ENERGY
Position: Northing: 7308081.48USft Latitude: 40.372253°
Easting: 2073174.48USft Longitude: -109.946702°
North Reference: True Grid Convergence: 1.00°
Elevation Above VRD: 0.00USft
Comment: UINTAH COUNTY, UT

Slot: HAMAKER 3-25A1
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 7308081.48USft Latitude: 40.372253°
+E/-W: 0.00USft Easting: 2073174.48USft Longitude: -109.946702°
Elevation Above VRD: 5458.60USft

Well: HAMAKER 3-25A1
Type: Main-Well
File Number:
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 235.74°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
BGGM 52074(nT) 11.03° 65.99° 2014-09-05
Comment: PRECISION 406 (17' RKB)

Plan Point Information:
DogLeg Severity Unit: °/100.00ft Position offsets from Slot centre

MD (USft)	Inc (°)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	VSec (USft)	DLS (DLSU)	Toolface (°)	Build (DLSU)	Turn (DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
3450.00	0.00	0.00	3450.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
4233.11	11.75	235.74	4227.64	-45.03	-66.12	80.00	1.50	235.7	1.50	0.00
6934.41	11.75	235.74	6872.36	-354.59	-520.66	629.94	0.00	0.0	0.00	0.00
7717.52	0.00	0.00	7650.00	-399.62	-586.78	709.93	1.50	180.0	-1.50	0.00
14467.52	0.00	0.00	14400.00	-399.62	-586.78	709.94	0.00	0.0	0.00	0.00

Casing Point Information:
Position offsets from Slot centre

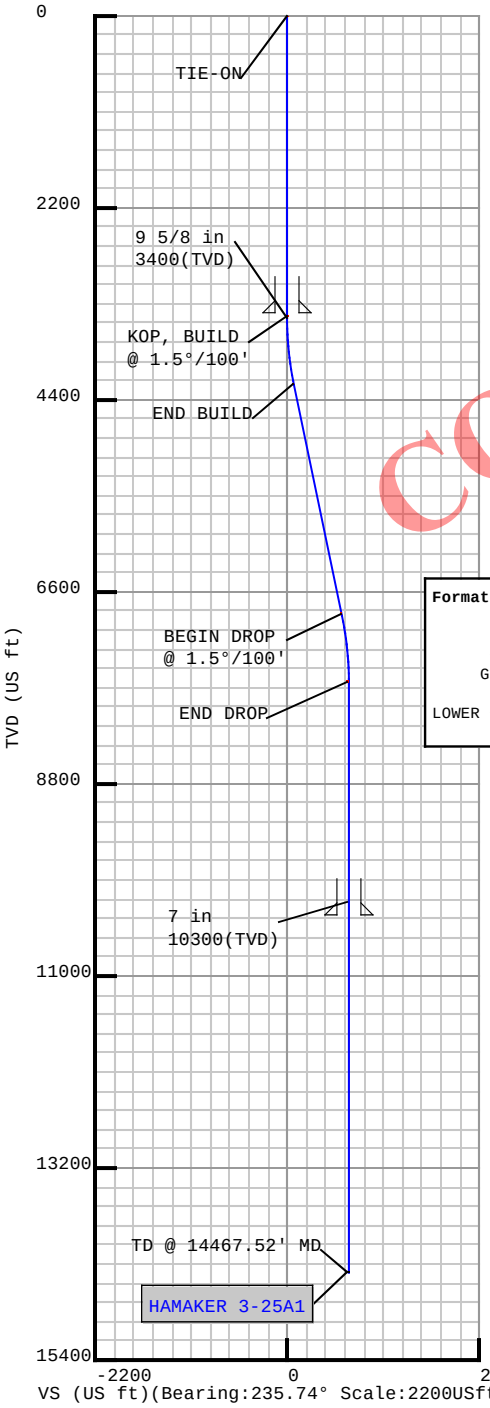
Name	MD (USft)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	Lat (°/'/")	Long (°/'/")
9 5/8 in	3400.00	3400.00	0.00	0.00	40°22'20.1"	-109°56'48.1"
7 in	10367.52	10300.00	-399.62	-586.78	40°22'16.2"	-109°56'55.7"

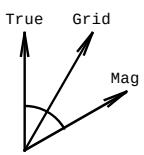
Target Set Information:
Name: HAMAKER 3-25A1 PBHL (1300' FNL & 1500'FWL, SEC.25)
Position offsets from Slot centre

Name	TVD (USft)	+N/-S (USft)	+E/-W (USft)	Lat (°/'/")	Long (°/'/")
PBHL-1	14400.00	-399.62	-586.78	40°22'16.2"	-109°56'55.7"

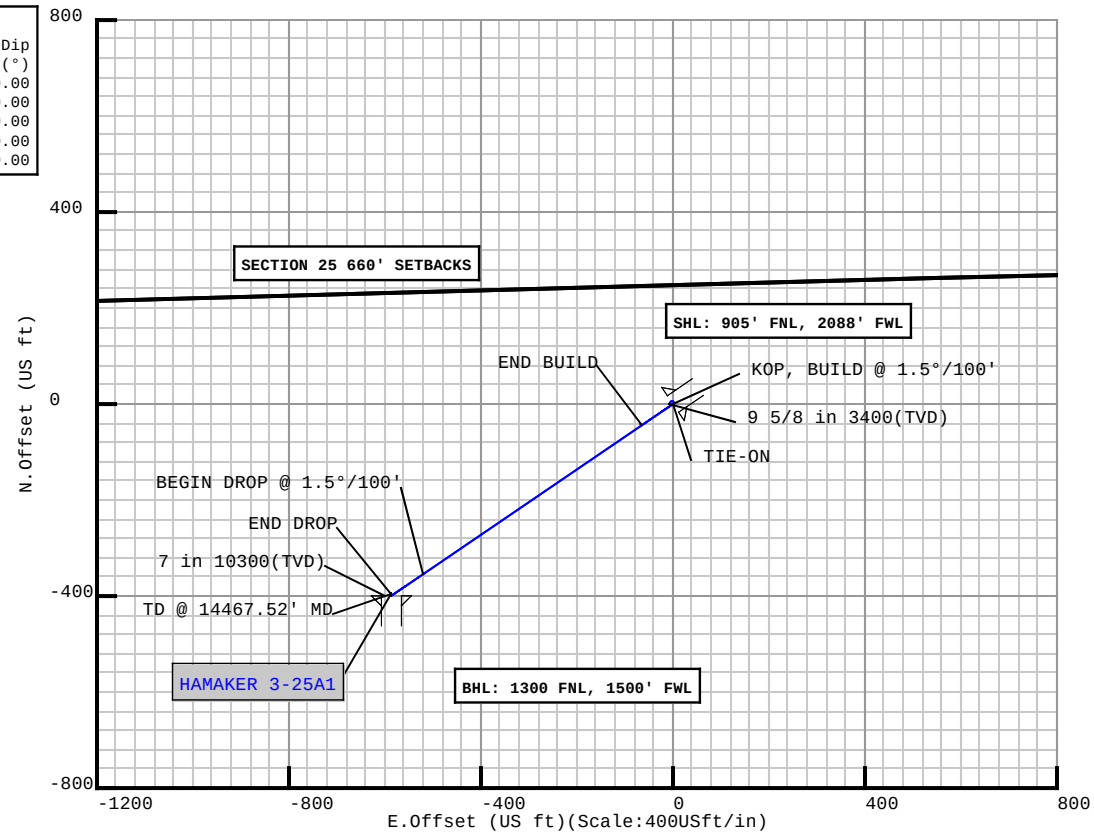
Formation Point Information:

Name	TVD (USft)	Elevation (USft)	MD (USft)	Dip (°)	Dip (°)
GREEN RIVER (GRRV)	5600.00	-124.40	5634.83	0.00	0.00
GREEN RIVER (GRTN1)	7012.00	-1536.40	7076.52	0.00	0.00
MAHOGANY BENCH	7651.00	-2175.40	7718.52	0.00	0.00
LOWER GREEN RIVER (TGR3)	8900.00	-3424.40	8967.52	0.00	0.00
WASATCH (W090TU2)	9886.00	-4410.40	9953.52	0.00	0.00





Grid Convergence: 1.00°
Mag Declination: 11.03°
Bearing:
True = Mag + 11.03°
Grid = True - 1.00°



Weatherford®

HAMAKER 3-25A1

CONFIDENTIAL

Field Name

UTAH_ CENTRAL ZONE_NAD83

Map Units : US ft

Company Name : EP ENERGY

Vertical Reference Datum (VRD) :

Projected Coordinate System : NAD83 / Utah Central (ftUS)

Comment :

Site Name

HAMAKER 3-25A1

Units : US ft

North Reference : True

Convergence Angle : 1.00

Position

Northing : 7308081.48 US ft

Easting : 2073174.48 US ft

Latitude : 40° 22' 20.11"

Longitude : -109° 56' 48.13"

Elevation above VRD:5458.60 US ft

Comment : UINTAH COUNTY, UT

Slot Name

HAMAKER 3-25A1

Position (Offsets relative to Site Centre)

+N / -S : 0.00 US ft

+E / -W : 0.00 US ft

Northing :7308081.48 US ft

Easting :2073174.48 US ft

Latitude : 40°22'20.11"

Longitude : -109°56'48.13"

Slot TVD Reference : Ground Elevation

Elevation above VRD : 5458.60 US ft

Comment :

Well Name

HAMAKER 3-25A1

Type : Main well

UWI :

Plan : PLAN 1

Rig Height ***Drill Floor*** **:** 17.00 US ft
Relative to VRD: 5475.60 US ft

Comment : PRECISION 406 (17' RKB)

Closure Distance : 709.935 US ft

Closure Azimuth : 235.744°

Vertical Section (Position of Origin Relative to Slot)

+N / -S : 0.00 US ft

+E / -W : 0.00 US ft

Az :235.74°

Magnetic Parameters

Model : BGGM

Field Strength : 52074.4nT

Dec : 11.03°

Dip : 65.99°

Date : 05/Sep/2014

RECEIVED: September 09, 2014

5D Plan Report

Plan Archive

Plan Folder	Date	Comment	Plans		
			Plan	Date	Comment
P1	05/Sep/2014		PLAN 1	05/Sep/2014	

Target Set

Name : HAMAKER 3-25A1 PBHL (1300' FNL & 1500'FWL, SEC.25) **Number of Targets :** 1

Comment :

TargetName: PBHL-1

Shape: Cuboid

Position (Relative to Slot centre)

+N / -S : -399.62US ft **Northing :** 7307671.74 US ft **Latitude :** 40°22'16.16"

+E / -W : -586.78 US ft **Easting :** 2072594.72US ft **Longitude :** -109°56'55.71"

TVD (Drill Floor) : 14400.00 US ft

Orientation **Azimuth :** 0.00° **Inclination :** 0.00°

Dimensions **Length :** 1.00 US ft **Breadth :** 1.00 US ft **Height :** 1.00 US ft

CONFIDENTIAL

Casing Points (Relative to Slot centre, TVD relative to Drill Floor)

Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)
9 5/8 in	3400.00	0.00	0.00	3400.00	0.00	0.00
7 in	10367.52	0.00	0.00	10300.00	-399.62	-586.78

Well path created using minimum curvature

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' "')	Longitude (° ' "')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Clos.Az (°)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	TIE-ON
100.00	0.00	0.00	100.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	

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5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' "')	Longitude (° ' "')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Clos.Az (°)	Comment
900.00	0.00	0.00	900.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	9 5/8 in
3450.00	0.00	0.00	3450.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	KOP, BUILD @ 1.5°/100'
3500.00	0.75	235.74	3500.00	-0.18	-0.27	40°22'20.11"	-109°56'48.13"	1.50	235.74	0.33	235.74	
3600.00	2.25	235.74	3599.96	-1.66	-2.43	40°22'20.09"	-109°56'48.16"	1.50	0.00	2.94	235.74	
3700.00	3.75	235.74	3699.82	-4.60	-6.76	40°22'20.07"	-109°56'48.21"	1.50	0.00	8.18	235.74	
3800.00	5.25	235.74	3799.51	-9.02	-13.24	40°22'20.02"	-109°56'48.30"	1.50	0.00	16.02	235.74	
3900.00	6.75	235.74	3898.96	-14.90	-21.88	40°22'19.96"	-109°56'48.41"	1.50	0.00	26.48	235.74	
4000.00	8.25	235.74	3998.10	-22.25	-32.67	40°22'19.89"	-109°56'48.55"	1.50	0.00	39.53	235.74	
4100.00	9.75	235.74	4096.87	-31.06	-45.60	40°22'19.80"	-109°56'48.72"	1.50	0.00	55.17	235.74	
4200.00	11.25	235.74	4195.19	-41.31	-60.66	40°22'19.70"	-109°56'48.91"	1.50	0.00	73.39	235.74	
4233.11	11.75	235.74	4227.64	-45.03	-66.12	40°22'19.67"	-109°56'48.98"	1.50	0.00	80.00	235.74	END BUILD
4300.00	11.75	235.74	4293.12	-52.69	-77.37	40°22'19.59"	-109°56'49.13"	0.00	0.00	93.61	235.74	
4400.00	11.75	235.74	4391.03	-64.15	-94.20	40°22'19.48"	-109°56'49.34"	0.00	0.00	113.97	235.74	
4500.00	11.75	235.74	4488.94	-75.61	-111.03	40°22'19.36"	-109°56'49.56"	0.00	0.00	134.33	235.74	
4600.00	11.75	235.74	4586.84	-87.07	-127.85	40°22'19.25"	-109°56'49.78"	0.00	0.00	154.69	235.74	

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5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' '')	Longitude (° ' '')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Clos.Az (°)	Comment
4700.00	11.75	235.74	4684.75	-98.53	-144.68	40°22'19.14"	-109°56'50.00"	0.00	0.00	175.05	235.74	
4800.00	11.75	235.74	4782.65	-109.99	-161.51	40°22'19.02"	-109°56'50.21"	0.00	0.00	195.41	235.74	
4900.00	11.75	235.74	4880.56	-121.45	-178.33	40°22'18.91"	-109°56'50.43"	0.00	0.00	215.76	235.74	
5000.00	11.75	235.74	4978.46	-132.91	-195.16	40°22'18.80"	-109°56'50.65"	0.00	0.00	236.12	235.74	
5100.00	11.75	235.74	5076.37	-144.37	-211.99	40°22'18.68"	-109°56'50.87"	0.00	0.00	256.48	235.74	
5200.00	11.75	235.74	5174.28	-155.83	-228.82	40°22'18.57"	-109°56'51.08"	0.00	0.00	276.84	235.74	
5300.00	11.75	235.74	5272.18	-167.29	-245.64	40°22'18.46"	-109°56'51.30"	0.00	0.00	297.20	235.74	
5400.00	11.75	235.74	5370.09	-178.75	-262.47	40°22'18.34"	-109°56'51.52"	0.00	0.00	317.56	235.74	
5500.00	11.75	235.74	5467.99	-190.21	-279.30	40°22'18.23"	-109°56'51.74"	0.00	0.00	337.91	235.74	
5600.00	11.75	235.74	5565.90	-201.67	-296.12	40°22'18.12"	-109°56'51.95"	0.00	0.00	358.27	235.74	
5634.83	11.75	235.74	5600.00	-205.66	-301.98	40°22'18.08"	-109°56'52.03"	0.00	0.00	365.36	235.74	GREEN RIVER (GRRV) :
5700.00	11.75	235.74	5663.80	-213.13	-312.95	40°22'18.00"	-109°56'52.17"	0.00	0.00	378.63	235.74	
5800.00	11.75	235.74	5761.71	-224.59	-329.78	40°22'17.89"	-109°56'52.39"	0.00	0.00	398.99	235.74	
5900.00	11.75	235.74	5859.62	-236.05	-346.60	40°22'17.78"	-109°56'52.61"	0.00	0.00	419.35	235.74	
6000.00	11.75	235.74	5957.52	-247.51	-363.43	40°22'17.66"	-109°56'52.82"	0.00	0.00	439.71	235.74	
6100.00	11.75	235.74	6055.43	-258.97	-380.26	40°22'17.55"	-109°56'53.04"	0.00	0.00	460.07	235.74	
6200.00	11.75	235.74	6153.33	-270.43	-397.08	40°22'17.44"	-109°56'53.26"	0.00	0.00	480.42	235.74	
6300.00	11.75	235.74	6251.24	-281.89	-413.91	40°22'17.33"	-109°56'53.48"	0.00	0.00	500.78	235.74	
6400.00	11.75	235.74	6349.14	-293.35	-430.74	40°22'17.21"	-109°56'53.69"	0.00	0.00	521.14	235.74	
6500.00	11.75	235.74	6447.05	-304.81	-447.56	40°22'17.10"	-109°56'53.91"	0.00	0.00	541.50	235.74	
6600.00	11.75	235.74	6544.96	-316.27	-464.39	40°22'16.99"	-109°56'54.13"	0.00	0.00	561.86	235.74	
6700.00	11.75	235.74	6642.86	-327.73	-481.22	40°22'16.87"	-109°56'54.34"	0.00	0.00	582.22	235.74	
6800.00	11.75	235.74	6740.77	-339.19	-498.05	40°22'16.76"	-109°56'54.56"	0.00	0.00	602.58	235.74	
6900.00	11.75	235.74	6838.67	-350.65	-514.87	40°22'16.65"	-109°56'54.78"	0.00	0.00	622.93	235.74	
6934.41	11.75	235.74	6872.36	-354.59	-520.66	40°22'16.61"	-109°56'54.85"	0.00	0.00	629.94	235.74	BEGIN DROP @ 1.5°/100'
7000.00	10.76	235.74	6936.69	-361.80	-531.24	40°22'16.54"	-109°56'54.99"	1.50	180.00	642.74	235.74	
7076.52	9.62	235.74	7012.00	-369.42	-542.43	40°22'16.46"	-109°56'55.14"	1.50	180.00	656.28	235.74	GREEN RIVER (GRTN1) :
7100.00	9.26	235.74	7035.16	-371.58	-545.61	40°22'16.44"	-109°56'55.18"	1.50	180.00	660.13	235.74	
7200.00	7.76	235.74	7134.06	-379.92	-557.85	40°22'16.36"	-109°56'55.33"	1.50	180.00	674.93	235.74	
7300.00	6.26	235.74	7233.31	-386.79	-567.94	40°22'16.29"	-109°56'55.47"	1.50	180.00	687.14	235.74	
7400.00	4.76	235.74	7332.84	-392.20	-575.88	40°22'16.23"	-109°56'55.57"	1.50	180.00	696.75	235.74	
7500.00	3.26	235.74	7432.60	-396.13	-581.66	40°22'16.20"	-109°56'55.64"	1.50	180.00	703.74	235.74	
7600.00	1.76	235.74	7532.50	-398.60	-585.29	40°22'16.17"	-109°56'55.69"	1.50	180.00	708.13	235.74	
7700.00	0.26	235.74	7632.48	-399.60	-586.75	40°22'16.16"	-109°56'55.71"	1.50	180.00	709.89	235.74	
7717.52	0.00	0.00	7650.00	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	1.50	180.00	709.93	235.74	END DROP
7718.52	0.00	0.00	7651.00	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	MAHOGANY BENCH :
7800.00	0.00	0.00	7732.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
7900.00	0.00	0.00	7832.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	

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Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' "')	Longitude (° ' "')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Clos.Az (°)	Comment
8000.00	0.00	0.00	7932.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
8100.00	0.00	0.00	8032.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
8200.00	0.00	0.00	8132.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
8300.00	0.00	0.00	8232.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
8400.00	0.00	0.00	8332.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
8500.00	0.00	0.00	8432.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
8600.00	0.00	0.00	8532.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
8700.00	0.00	0.00	8632.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
8800.00	0.00	0.00	8732.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
8900.00	0.00	0.00	8832.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
8967.52	0.00	0.00	8900.00	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	LOWER GREEN RIVER (TGR3) :
9000.00	0.00	0.00	8932.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
9100.00	0.00	0.00	9032.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
9200.00	0.00	0.00	9132.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
9300.00	0.00	0.00	9232.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
9400.00	0.00	0.00	9332.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
9500.00	0.00	0.00	9432.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
9600.00	0.00	0.00	9532.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
9700.00	0.00	0.00	9632.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
9800.00	0.00	0.00	9732.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
9900.00	0.00	0.00	9832.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
9953.52	0.00	0.00	9886.00	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	WASATCH (W090TU2) :
10000.00	0.00	0.00	9932.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
10100.00	0.00	0.00	10032.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
10200.00	0.00	0.00	10132.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
10300.00	0.00	0.00	10232.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
10367.52	0.00	0.00	10300.00	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	7 in
10400.00	0.00	0.00	10332.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
10500.00	0.00	0.00	10432.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
10600.00	0.00	0.00	10532.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
10700.00	0.00	0.00	10632.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
10800.00	0.00	0.00	10732.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
10900.00	0.00	0.00	10832.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
11000.00	0.00	0.00	10932.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
11100.00	0.00	0.00	11032.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
11200.00	0.00	0.00	11132.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
11300.00	0.00	0.00	11232.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
11400.00	0.00	0.00	11332.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
11500.00	0.00	0.00	11432.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
11600.00	0.00	0.00	11532.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	

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5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' "')	Longitude (° ' "')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Clos.Az (°)	Comment
11700.00	0.00	0.00	11632.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
11800.00	0.00	0.00	11732.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
11900.00	0.00	0.00	11832.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
12000.00	0.00	0.00	11932.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
12100.00	0.00	0.00	12032.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
12200.00	0.00	0.00	12132.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
12300.00	0.00	0.00	12232.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
12400.00	0.00	0.00	12332.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
12500.00	0.00	0.00	12432.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
12600.00	0.00	0.00	12532.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
12700.00	0.00	0.00	12632.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
12800.00	0.00	0.00	12732.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
12900.00	0.00	0.00	12832.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
13000.00	0.00	0.00	12932.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
13100.00	0.00	0.00	13032.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
13200.00	0.00	0.00	13132.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
13300.00	0.00	0.00	13232.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
13400.00	0.00	0.00	13332.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
13500.00	0.00	0.00	13432.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
13600.00	0.00	0.00	13532.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
13700.00	0.00	0.00	13632.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
13800.00	0.00	0.00	13732.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
13900.00	0.00	0.00	13832.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
14000.00	0.00	0.00	13932.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
14100.00	0.00	0.00	14032.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
14200.00	0.00	0.00	14132.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
14300.00	0.00	0.00	14232.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
14400.00	0.00	0.00	14332.48	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.93	235.74	
14467.52	0.00	0.00	14400.00	-399.62	-586.78	40°22'16.16"	-109°56'55.71"	0.00	0.00	709.94	235.74	TD @ 14467.52' MD

Formation Points (Relative to Slot centre, TVD relative to Drill Floor)

Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	F.Dip (°)	F.Dir (°)
GREEN RIVER (GRRV)	5634.83	11.75	235.74	5600.00	-205.66	-301.98	0	0
GREEN RIVER (GRTN1)	7076.52	9.62	235.74	7012.00	-369.42	-542.43	0	0
MAHOGANY BENCH	7718.52	0.00	0.00	7651.00	-399.62	-586.78	0	0
LOWER GREEN RIVER (TGR3)	8967.52	0.00	0.00	8900.00	-399.62	-586.78	0	0
WASATCH (W090TU2)	9953.52	0.00	0.00	9886.00	-399.62	-586.78	0	0

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RECEIVED: September 09, 2014

API Well Number: 43047547350000

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE

Corie A. Mathews personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Corie A. Mathews. I am a Senior Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana Street, Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Hamaker 3-25A1 well ("the Well") to be located in the NE/4 of the NW/4 of Section 25, Township 1 South, Range 1 West, USM, Uintah County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Brent E. Hamaker, whose address is RT 2 Box 2700, Roosevelt, Utah 84066 and whose telephone number is (435) 823-4023 (the "Surface Owner").
3. EP Energy and the Surface Owner have entered into a Damage Settlement and Release Agreement dated September 4, 2014 to cover any and all injuries or damages of every character and description sustained by the Surface Owner's property as a result of operations associated with the drilling, completing and producing of the Well.

FURTHER AFFIANT SAYETH NOT.

Corie A. Mathews

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ACKNOWLEDGMENT

STATE OF TEXAS §
§
COUNTY OF HARRIS §

This instrument was acknowledged before me on this the 4th day of September, 2014 by Corie A. Mathews as a Senior Landman for EP ENERGY E&P COMPANY, L.P., a Delaware limited partnership, on behalf of said partnership and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

Ginger M. Cearley
Notary Public,
State of Texas
Expires:08-02-2018

Ginger M. Cearley
Notary Public in and for State of Texas

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 .18 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: Roosevelt City/Ballard City Water

5. **Existing/Proposed Facilities For Productive Well:**
   - There are no existing facilities that will be utilized for this well.
   - A pipeline corridor approximately .18 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 place 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.

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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:

Brent E. Hamaker
Rt 2 Box 2700
Roosevelt, Utah 84066
435-823-4023

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

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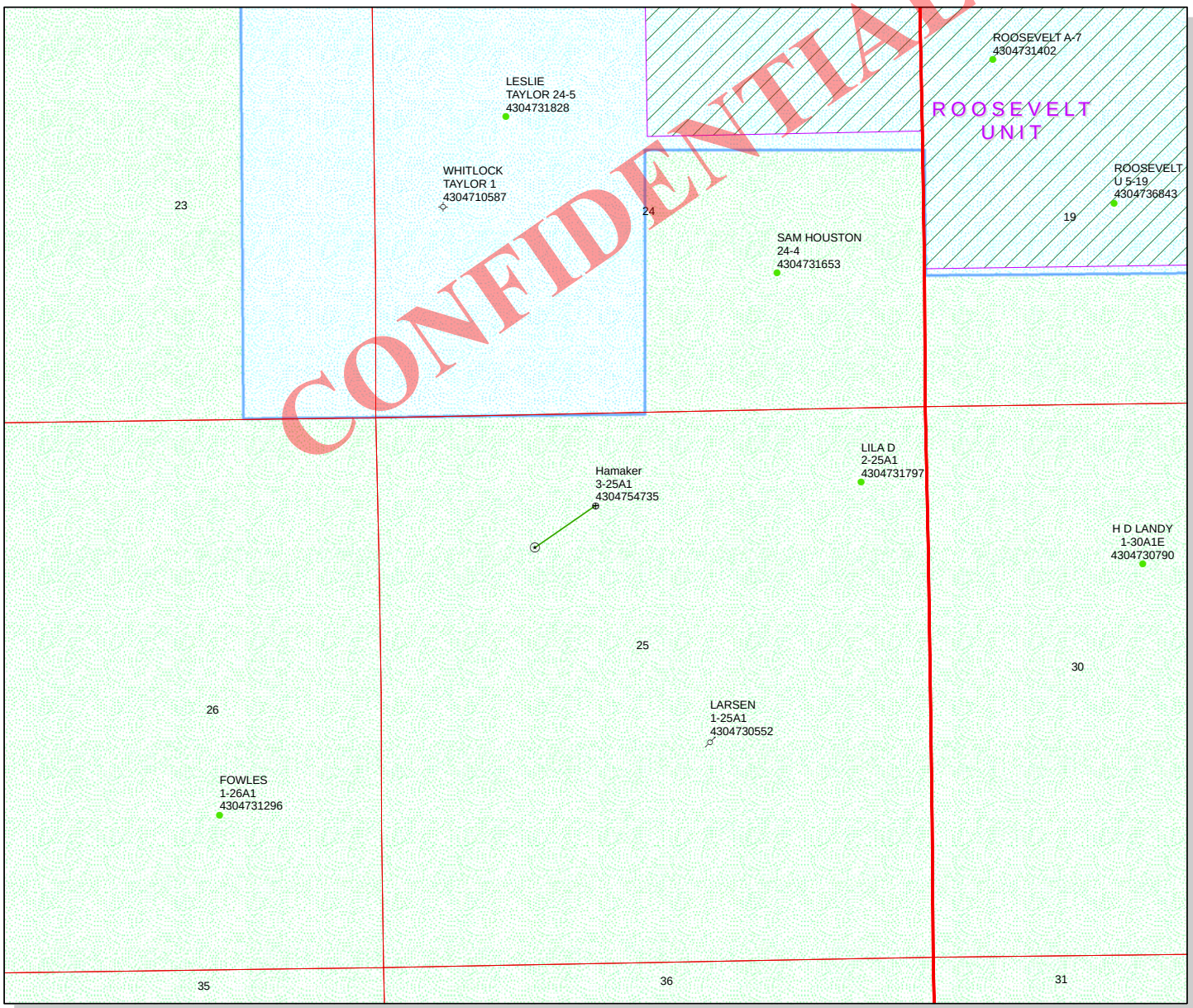
RECEIVED: September 09, 2014

API Well Number: 43047547350000



API Number: 4304754735

Well Name: Hamaker 3-25A1

Township: T01.0S Range: R01.0W Section: 25 Meridian: U

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

Map Prepared: 9/10/2014
Map Produced by Diana Mason

Wells Query

Status

- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

Units

STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields

STATUS

- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

1,200 600 0 1,200 Feet

1:11,823

RECEIVED: September 10, 2014

API Well Number: 43047547350000

BOPE REVIEW **EP ENERGY E&P COMPANY, L.P. Hamaker 3-25A1 43047547350000**

Well Name	EP ENERGY E&P COMPANY, L.P. Hamaker 3-25A1 43047547350000			
String	Cond	Surf	I1	L1
Casing Size(")	13.375	9.625	7.000	5.000
Setting Depth (TVD)	800	3400	10300	14400
Previous Shoe Setting Depth (TVD)	0	800	3400	10300
Max Mud Weight (ppg)	10.5	10.5	10.1	13.7
BOPE Proposed (psi)	500	1000	10000	10000
Casing Internal Yield (psi)	2730	5750	11220	13940
Operators Max Anticipated Pressure (psi)	10259			13.7

Calculations	Cond String	13.375	"	
Max BHP (psi)	.052*Setting Depth*MW=	437		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	341	YES	diverter stack
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	261	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	261	NO	OK
Required Casing/BOPE Test Pressure=		800	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=	1856		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1448	NO	diverter stack with rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1108	NO	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1284	NO	No expected pressure
Required Casing/BOPE Test Pressure=		3400	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		800	psi	*Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	5410		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4174	YES	10M BOPE w/rotating head, spacer spool, 5M annular,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3144	YES	dbl rams, single w/flex rams
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3892	NO	OK
Required Casing/BOPE Test Pressure=		7854	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		3400	psi	*Assumes 1psi/ft frac gradient

Calculations	L1 String	5.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	10259		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	8531	YES	10M BOPE w/rotating head, spacer spool, 5M annular,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	7091	YES	dbl rams, single w/flex rams
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	9357	YES	OK
Required Casing/BOPE Test Pressure=		9758	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		10300	psi	*Assumes 1psi/ft frac gradient

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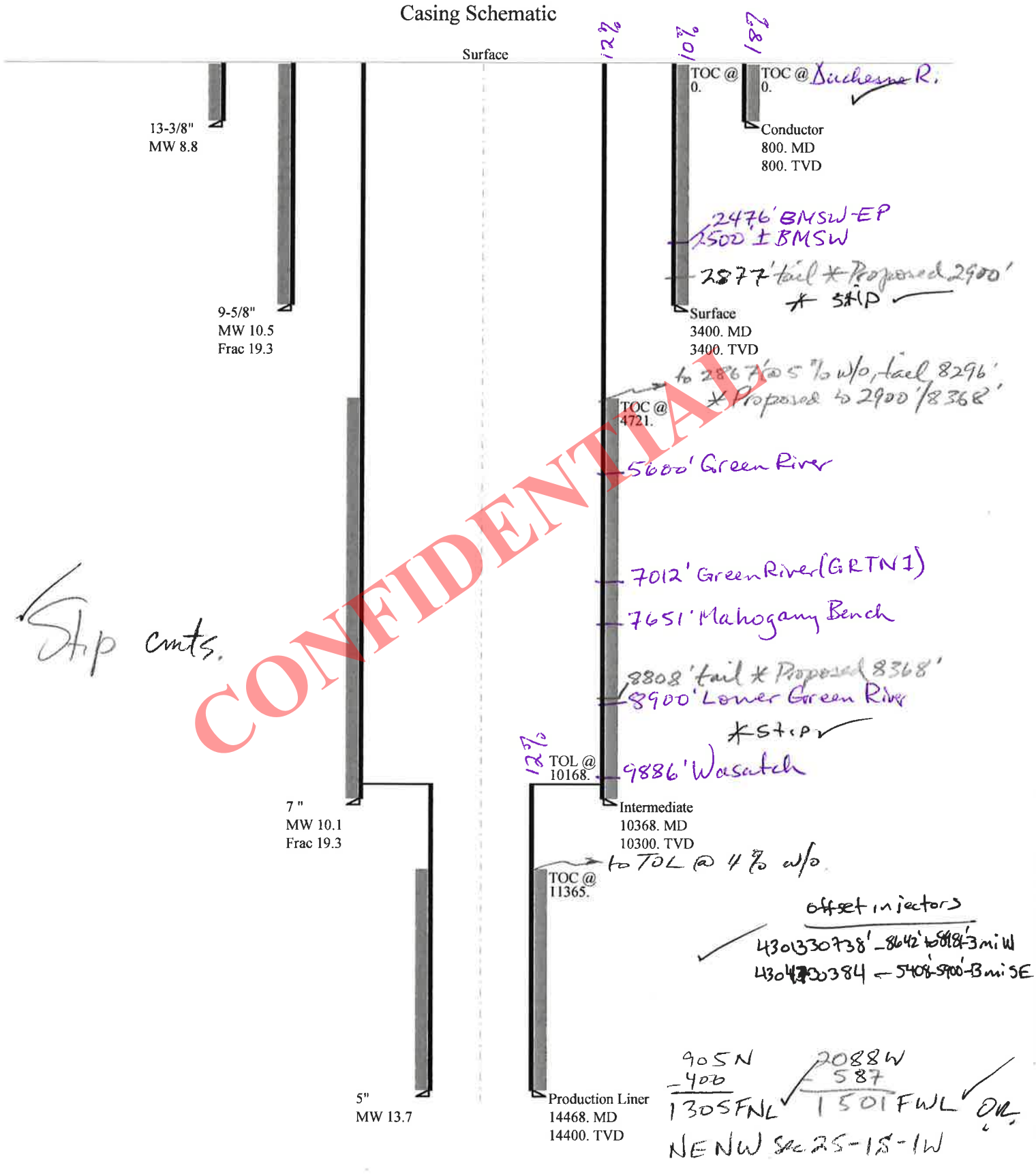
RECEIVED: October 08, 2014

API Well Number: 43047547350000

43047547350000 Hamaker 3-25A1

Casing Schematic



CONFIDENTIAL

API Well Number: 43047547350000

Well name:	**43047547350000 Hamaker 3-25A1**
Operator:	**EP ENERGY E&P COMPANY, LP.**
String type:	Conductor
Location:	DUCHESNE COUNTY
Project ID:	43-013-54735

Design parameters:

Collapse

Mud weight: 8.800 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 270 psi

Internal gradient: 0.120 psi/ft

Calculated BHP 366 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: 1.70 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.50 (B)

Tension is based on buoyed weight.

Neutral point: 696 ft

Environment:

H2S considered? No

Surface temperature: 74 °F

Bottom hole temperature: 85 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 100 ft

Cement top: Surface

Non-directional string.

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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	800	13.375	54.50	J-55	ST&C	800	800	12.49	9925

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	366	1130	3.090	366	2730	7.47	37.9	514	13.55 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940

Date: October 7,2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 800 ft, a mud weight of 8.8 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.

API Well Number: 43047547350000

Well name:	**43047547350000 Hamaker 3-25A1**
Operator:	**EP ENERGY E&P COMPANY, LP.**
String type:	Surface
Project ID:	43-013-54735
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

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

Burst

Max anticipated surface pressure: 2,992 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 3,400 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: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 2,869 ft

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 122 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: Surface

Non-directional string.

Re subsequent strings:

Next setting depth: 10,368 ft
Next mud weight: 10.100 ppg
Next setting BHP: 5,440 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 3,400 ft
Injection pressure: 3,400 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	3400	9.625	40.00	N-80	LT&C	3400	3400	8.75	43263

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	1854	3090	1.666	3400	5750	1.69	114.8	737	6.42 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: October 7,2014
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 3400 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.

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

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API Well Number: 43047547350000

Well name:	**43047547350000 Hamaker 3-25A1**
Operator:	**EP ENERGY E&P COMPANY, LP.**
String type:	Intermediate
Project ID:	43-013-54735
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 10.100 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 7,114 psi

Internal gradient: 0.220 psi/ft

Calculated BHP 9,380 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: 8,793 ft

Environment:

H2S considered? No

Surface temperature: 74 °F

Bottom hole temperature: 218 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 1,000 ft

Cement top: 4,721 ft

Directional Info - Build & Drop

Kick-off point 3450 ft

Departure at shoe: 710 ft

Maximum dogleg: 1.5 °/100ft

Inclination at shoe: 0 °

Re subsequent strings:

Next setting depth: 14,468 ft

Next mud weight: 13.700 ppg

Next setting BHP: 10,297 psi

Fracture mud wt: 19.250 ppg

Fracture depth: 10,368 ft

Injection pressure: 10,368 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	10368	7	29.00	HCP-110	LT&C	10300	10368	6.059	117082

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	5404	9200	1.702	9380	11220	1.20	253	797	3.15 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940

Date: October 7,2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 10300 ft, a mud weight of 10.1 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.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

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

API Well Number: 43047547350000

Well name:	**43047547350000 Hamaker 3-25A1**
Operator:	**EP ENERGY E&P COMPANY, LP.**
String type:	Production Liner
Project ID:	43-013-54735
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 13.700 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 7,081 psi

Internal gradient: 0.220 psi/ft

Calculated BHP 10,249 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: 13,578 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	276 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	1,000 ft
Cement top:	11,365 ft
Liner top:	10,168 ft

Directional Info - Build & Drop

Kick-off point	3450 ft
Departure at shoe:	710 ft
Maximum dogleg:	0 °/100ft
Inclination at shoe:	0 °

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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	4268	5	18.00	HCP-110	ST-L	14400	14468	4.151	338026

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	10249	15360	1.499	10249	13940	1.36	60.8	341	5.61 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940

Date: October 7,2014
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 14400 ft, a mud weight of 13.7 ppg The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

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

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name Hamaker 3-25A1
API Number 43047547350000 **APD No** 10259 **Field/Unit** BLUEBELL
Location: 1/4,1/4 NENW **Sec** 25 **Tw** 1.0S **Rng** 1.0W 905 FNL 2088 FWL
GPS Coord (UTM) 589420 4469607 **Surface Owner** Brent E. Hamaker

Participants

Brent Hamaker - landowner; Heather Ivie, Rebecca Ivie, Randy Frederick - EP

Regional/Local Setting & Topography

Surface Use Plan

Current Surface Use
Agricultural
Grazing

New Road Miles	Well Pad		Src Const Material	Surface Formation
0.1768	**Width** 230	**Length** 410	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

High desert shrubland ecosystem. Expected vegetation consists of sagebrush, globemallow, evening primrose, Atriplex spp., mustard spp, rabbit brush, horsebrush, broom snakeweed, Opuntia spp and spring annuals.
Dominant vegetation;
pasture grass

Wildlife;
Disturbed and cultivated soils are not habitat for wildlife although many species may frequent.

Soil Type and Characteristics

cultivated productive soils

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

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Drainage Diverson Required? Y
as noted on cut sheet

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? N **Paleo Potental Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	25 to 75	15
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	1320 to 5280	5
Distance to Other Wells (feet)	300 to 1320	10
Native Soil Type	Mod permeability	10
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	45 1 Sensitivity Level

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Characteristics / Requirements

A 133' x 110' reserve pit is planned in an area of cut on the west side of the location. A pit liner is required. Operator commonly uses a 16 mil liner with a felt underliner. Pit should be fenced to prevent entry by deer, other wildlife and domestic animals. A minimum freeboard of two feet shall be maintained at all times. Pit to be closed within one year after drilling activities are complete.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

Other Observations / Comments

Operator's representative promised cattle guards with gates and fencing around the entire location

Chris Jensen	9/15/2014
Evaluator	**Date / Time**

RECEIVED: October 09, 2014

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
10259	43047547350000	LOCKED	OW	P	No

Operator	EP ENERGY E&P COMPANY, L.P.	**Surface Owner-APD**	Brent E. Hamaker
Well Name	Hamaker 3-25A1	**Unit**	
Field	BLUEBELL	**Type of Work**	DRILL
Location	NENW 25 1S 1W U 905 FNL 2088 FWL GPS Coord (UTM) 589420E 4469611N		

Geologic Statement of Basis

EP proposes to set 800 feet of conductor and 3,400 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 2,500 feet. A search of Division of Water Rights records indicates that there are over 30 water wells within a 10,000 foot radius of the center of Section 25. Wells range in depth from 30 to 600 feet. No depth is listed for 2 wells. Listed use is domestic, irrigation, industrial and stock watering. The wells in this area probably produce water from the Duchesne River Formation and associated alluvium. The proposed casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill — **APD Evaluator**

10/2/2014 — **Date / Time**

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Surface Statement of Basis

Location is proposed in a good location although outside the spacing window. Well was moved to higher ground. Access road enters the pad from the North. The landowner or its representative was in attendance for the pre-site inspection.
The soil type and topography at present do not combine to pose a significant threat to erosion or sediment/ pollution transport in these regional climate conditions.
Usual construction standards of the Operator appear to be adequate for the proposed purpose as submitted.
I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. A riparian area can be found adjacent the site to the South and west. The location was not previously surveyed for cultural and paleontological resources (as the operator saw fit). I have advised the operator take all measures necessary to comply with NHPA, ESA and MBTA and that actions insure no disturbance to resources that may have not been seen during onsite visit.
The location should be bermed to prevent fluids from entering or leaving the confines of the pad. Fencing around the reserve pit will be necessary to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit. Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues. A diversion is to be built as shown on cut sheet submitted.

Chris Jensen — **Onsite Evaluator**

9/15/2014 — **Date / Time**

RECEIVED: October 09, 2014

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from entering or leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

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RECEIVED: October 09, 2014

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 9/9/2014
API NO. ASSIGNED: 43047547350000
WELL NAME: Hamaker 3-25A1
OPERATOR: EP ENERGY E&P COMPANY, L.P. (N3850)
PHONE NUMBER: 713 997-5038
CONTACT: Maria S. Gomez

PROPOSED LOCATION: NENW 25 010S 010W
Permit Tech Review: ✔

SURFACE: 0905 FNL 2088 FWL
Engineering Review: ✔

BOTTOM: 1300 FNL 1500 FWL
Geology Review: ✔

COUNTY: UINTAH
LATITUDE: 40.37228
LONGITUDE: -109.94670
UTM SURF EASTINGS: 589420.00
NORTHINGS: 4469611.00
FIELD NAME: BLUEBELL
LEASE TYPE: 4 - Fee
LEASE NUMBER: Fee
PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH
SURFACE OWNER: 4 - Fee
COALBED METHANE: NO

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RECEIVED AND/OR REVIEWED:

- ✔ **PLAT**
- ✔ **Bond:** STATE/FEE - 400JU0708
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ✔ **Water Permit:** Roosevelt City/Ballard City
- ☐ **RDCC Review:**
- ✔ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ✔ **Drilling Unit**

Board Cause No: Cause 139-84
Effective Date: 12/31/2008
Siting: 4 Wells Per 640 Acres

- ✔ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
5 - Statement of Basis - bhill
8 - Cement to Surface -- 2 strings - hmacdonald
12 - Cement Volume (3) - hmacdonald
15 - Directional - dmason

RECEIVED: October 09, 2014

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: Hamaker 3-25A1
API Well Number: 43047547350000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 10/9/2014

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 139-84. 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:
In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

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.

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 500' above surface shoe and tail cement to 500' above top of 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:

For John Rogers
Associate Director, Oil & Gas

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[redacted]

Carol Daniels <caroldaniels@utah.gov>

NENW SEC25 T01S R01W FEE LEASE

24hr Spud notice Hamaker 3-25A1 API # 43047547350000

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com> Tue, Oct 21, 2014 at 8:33 AM
To: David Hackford <davidhackford@utah.gov>, "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Derden, Roy Lynn (Contractor)" <Roy.Derden@epenergy.com>

RE: EP ENERGY

HAMAKER 3-25A1

API # 43047547350000

BLUE BELL FIELD

UINTAH COUNTY

Leon Ross Drilling spudded the well @ 10:00hrs on 10/20/2014. We plan on running and cementing 20" Conductor Casing to +/- 40' within 24hrs.

Regards,

Tony Wilkerson / Bill Owen

EP Energy LLC

PD Rig 406

Rig: 713-997-1220

Cell: 435-823-1764

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

5.LEASE DESIGNATION AND SERIAL NUMBER: Fee

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
Hamaker 3-25A1

2. NAME OF OPERATOR:
EP ENERGY E&P COMPANY, L.P.

9. API NUMBER:
43047547350000

3. ADDRESS OF OPERATOR:
1001 Louisiana , Houston, TX, 77002

PHONE NUMBER:
713 997-5038 Ext

9. FIELD and POOL or WILDCAT:
BLUEBELL

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0905 FNL 2088 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENW Section: 25 Township: 01.0S Range: 01.0W Meridian: U

COUNTY:
UINTAH

STATE:
UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 1/25/2015	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Initial Completion

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

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

Approved by the
Utah Division of
Oil, Gas and Mining
January 22, 2015

Date:

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Maria S. Gomez	713 997-5038	Principal Regulatory Analyst
SIGNATURE		**DATE**
N/A		1/15/2015

RECEIVED: Jan. 15, 2015

Hamaker 3-25A1

Initial Completion

API # : 4304754735

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. A frac tree with BOP equipment will be utilized during the stimulation treatment.

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 casing after the frac.

6. 2 7/8" tubing will be run to isolate the 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 ~13450' – 13758' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 3726 gals.

Stage #2 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~13202' – 13422' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 3722 gals.

Stage #3 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~12901' – 13172' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 3717 gals.

Stage #4 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~12599' – 12864' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 3711 gals.

Stage #5 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~12319' – 12558' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 3706 gals.

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Stage #6 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11955' – 12264' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 3700 gals.

Stage #7 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~11582' – 11860' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 3693 gals.

Stage #8 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~' – ' with ~ gallons of 15% HCL acid, ~ # of 100 mesh sand and ~ # of . Total clean water volume is 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%)	BBLs of Clean H2O	BBLs of Slurry
Stage #1	13,450	13,758	308	NA	23	69	17	Power Prop 30/50	150,000	487	3,000	5,000	3,726	4,132
Stage #2	13,202	13,422	220	13,437	20	60	17	Power Prop 30/50	150,000	682	3,000	5,000	3,722	4,128
Stage #3	12,901	13,172	271	13,187	23	69	17	Power Prop 30/50	150,000	554	3,000	5,000	3,717	4,123
Stage #4	12,599	12,864	265	12,879	23	69	17	Power Prop 30/50	150,000	566	3,000	5,000	3,711	4,117
Stage #5	12,319	12,558	239	12,573	23	69	17	Power Prop 30/50	150,000	628	3,000	5,000	3,706	4,112
Stage #6	11,955	12,264	309	12,279	23	69	17	Power Prop 30/50	150,000	485	3,000	5,000	3,700	4,106
Stage #7	11,582	11,860	278	11,875	22	66	17	Power Prop 30/50	150,000	540	3,000	5,000	3,693	4,099
Average per Stage			**270**		**22**	**67**	**17**		**150,000**	**563**	**3,000**	**5,000**	**3,711**	**4,117**
Totals per Well			**1,890**		**157**	**471**	**119**		**1,050,000**		**21,000**	**35,000**	**25,975**	**28,818**

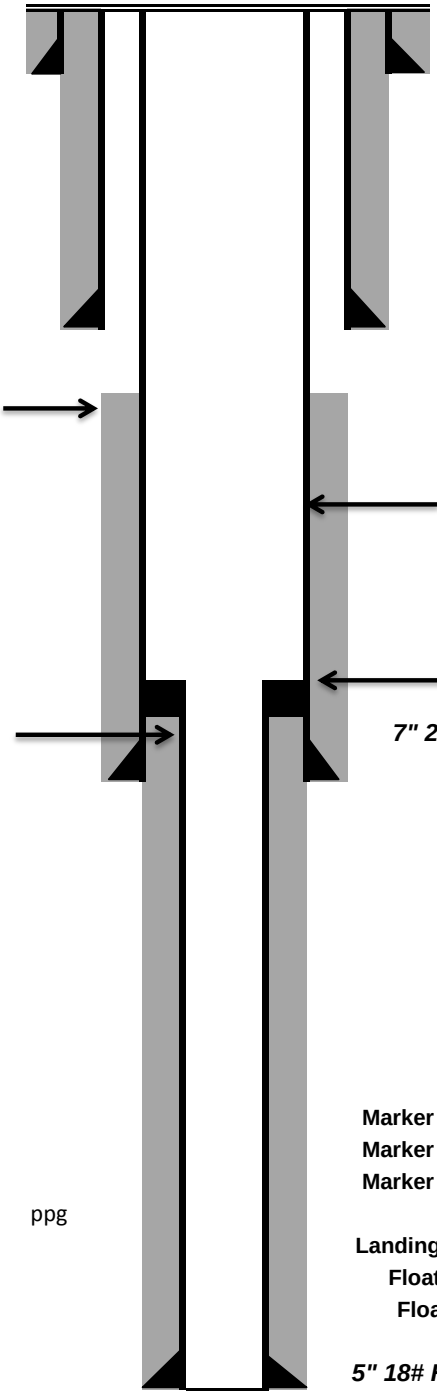
RECEIVED: Jan. 15, 2015

EP ENERGY

Pre-Completion Wellbore Schematic

Well Name:	**Hamaker 3-25A1**	Last Updated:	*1/5/2015*
Company Name:	*EP Energy*	By:	*David Gregory*
Field, County, State:	*Altamont, Uintah, Utah*	TD:	*13,920*
Surface Location:	*Lat: 40°22'20.11" N Long: 109°56'48.13" W*	API:	*4304754735*
Producing Zone(s):	*Wasatch*	AFE:	*147644*

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



13-3/8" 54.5# J-55 STC @ 817 ft. MD

9-5/8" 40# N-80 LTC @ 3415 ft. MD

Estimated 7" TOC: XXXX ft MD

7" Marker Joint at: 9,004 ft MD

c

Top of Liner at: 9,787 ft MD

Liner TOC at: XXXX ft MD

7" 29# HCP-110 LTC @ 10002 ft. MD
Drift ID = 6.059"

Marker Joint 1 at: 10,927 ft MD
Marker Joint 2 at: 11,925 ft MD
Marker Joint 3 at: 12,921 ft MD

Drilling MW @ TD: 14.3 ppg

Landing Collar @ 13,832 ft MD
Float Collar @ 13,876 ft MD
Float Shoe @ 13,920 ft MD

5" 18# HCP-110 STL @ 9787 - 13920 ft. MD
Drift ID = 4.151"

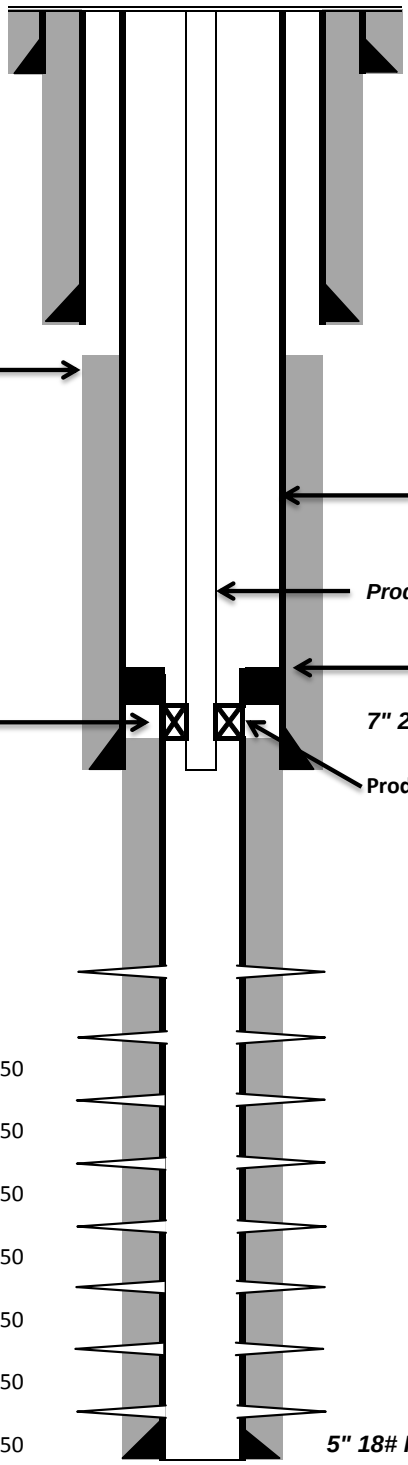
RECEIVED: Jan. 15, 2015

EP ENERGY

Post-Completion Wellbore Schematic

Well Name:	**Hamaker 3-25A1**	Last Updated:	*1/5/2015*
Company Name:	*EP Energy*	By:	*David Gregory*
Field, County, State:	*Altamont, Uintah, Utah*	TD:	*13,920*
Surface Location:	*Lat: 40°22'20.11" N Long: 109°56'48.13" W*	API:	*4304754735*
Producing Zone(s):	*Wasatch*	AFE:	*147644*

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



13-3/8" 54.5# J-55 STC @ 817 ft. MD

9-5/8" 40# N-80 LTC @ 3415 ft. MD

Estimated TOC at: XXXX ft MD

7" Marker Joint at: 9,004 ft MD

Production Tubing: 2 7/8"

Top of Liner at: 9,787 ft MD

Liner TOC at: XXXX ft MD

7" 29# HCP-110 LTC @ 10002 ft. MD
Drift ID = 6.059"
Production Packer @ 9879 ft MD

Initial Completion Perf Information

-

Stage #7 **11582 - 11860 22' /66 shots**
5000 gal HCL & 150000 lbs Power Prop 30/50
Stage #6 **11955 - 12264 23' /69 shots**
5000 gal HCL & 150000 lbs Power Prop 30/50
Stage #5 **12319 - 12558 23' /69 shots**
5000 gal HCL & 150000 lbs Power Prop 30/50
Stage #4 **12599 - 12864 23' /69 shots**
5000 gal HCL & 150000 lbs Power Prop 30/50
Stage #3 **12901 - 13172 23' /69 shots**
5000 gal HCL & 150000 lbs Power Prop 30/50
Stage #2 **13202 - 13422 20' /60 shots**
5000 gal HCL & 150000 lbs Power Prop 30/50
Stage #1 **13450 - 13758 23' /69 shots**
5000 gal HCL & 150000 lbs Power Prop 30/50

Marker Joint 1 @: 10,927 ft MD
Marker Joint 2 @: 11,925 ft MD
Marker Joint 2 @: 12,921 ft MD

Landing Collar @ 13,832 ft MD
Float Collar @ 13,876 ft MD
Float Shoe @ 13,920 ft MD

5" 18# HCP-110 STL @ 9787 - 13920 ft. MD
Drift ID = 4.151"

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Reset Form

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

AMENDED REPORT ☐ (highlight changes)

FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME

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

8. WELL NAME and NUMBER: Hamaker 3-25A1

2. NAME OF OPERATOR: EP Energy E&P Company, L.P.

9. API NUMBER: 4304754735

3. ADDRESS OF OPERATOR: 1001 Louisiana CITY Houston STATE TX ZIP 77002

PHONE NUMBER: (713) 997-5038

10 FIELD AND POOL, OR WILDCAT: Bluebell

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: 905' FNL & 2088' FWL

AT TOP PRODUCING INTERVAL REPORTED BELOW: 1352' FNL & 1624' FWL

AT TOTAL DEPTH: 1403' FNL & 1669' FWL

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 25 1S 1W U

12. COUNTY: Uintah

13. STATE: UTAH

14. DATE SPUDDED: 11/27/2014

15. DATE T.D. REACHED: 1/4/2015

16. DATE COMPLETED: 2/2/2015 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 5468

18. TOTAL DEPTH: MD 13,920 TVD 13,880

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)

Sonic, Gamma Ray, Resistivity & Neutron Density

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
17.5	13.375	J55	54.5	0	801		G	1,000	1,150	0	
12.25	9.625	N80	40	0	3,413		G	935	1,890	0	
8.75	7"	HCP1	29	0	10,002		G	850	1,552	5104	
6.125	5"	HCP1	18	9,776	13,920		G	500	710	9776	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	9,892	9,884						

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Wasatch	9,885	13,920	9,847	13,880
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS	
13,449	13,757	.43	69	Open ☑	Squeezed ☐
13,201	13,421	.43	60	Open ☑	Squeezed ☐
12,901	13,171	.43	69	Open ☑	Squeezed ☐
12,598	12,869	.43	69	Open ☑	Squeezed ☐

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
13449-13757	5000 gal 15% HCL acid, 3000# 100 mesh, 150300# 30/50 PowerProp
13201-13421	5000 gal 15% HCL acid, 3000# 100 mesh, 150300# 30/50 PowerProp
12901-13171	5000 gal 15% HCL acid, 3000# 100 mesh, 150200# 30/50 PowerProp

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: Prod

(5/2000)

(CONTINUED ON BACK)

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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:
2/3/2015	2/9/2015	24		625	1,308	904	FL

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:
14	2,500	0	43.30	1	2		625	1,308	904	PROD

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.)

Sold

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.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.

34. FORMATION (Log) MARKERS:

Name	Top (Measured Depth)
Upper Green River	5,650
Middle Green River	7,729
Lower Green River	8,905
Wasatch	9,885

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) Maria S. Gomez

TITLE Principal Regulatory Analyst

SIGNATURE Maria S. Gomez

Digitally signed by Maria Gomez
DN: cn=Maria Gomez, o=EP Energy, ou=Regulatory, email=maria.gomez@epenergy.com, c=US
Date: 2015.02.27 12:14:15 -06'00'

DATE 2/27/2015

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
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

RECEIVED: Feb. 27, 2015

Attachment to Well Completion Report

Form 8 Dated February 27, 2015

Well Name: Hamaker 3-25A1

Items #27 and #28 Continued

27. Perforation Record

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
12318'-12557'	.43	69	Open
11953'-12262'	.43	69	Open
11580'-11858'	.43	66	Open

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

Depth Interval	Amount and Type of Material
12598'-12863'	5000 gal acid, 3000# 100 mesh, 150100# 30/50 PowerProp
12318'-12557'	5000 gal acid, 3000# 100 mesh, 150100# 30/50 PowerProp
11953'-12262'	5000 gal acid, 3000# 100 mesh, 150040# 30/50 PowerProp
11580'-11858'	5000 gal acid, 3420# 100 mesh, 148900# 30/50 PowerProp

RECEIVED: Feb. 27, 2015

EP ENERGY

Company:	EP Energy	**Job Number:**		**Calculation Method**	Minimum Curvature
Well:	Hamaker 3-25A1	**Mag Decl.:**		**Proposed Azimuth**	0.00
Location:	Uintah, UT	**Dir Driller:**		**Depth Reference**	KB
Rig:	Precision 404	**MWD Eng:**		**Tie Into:**	Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)		Coordinates E/W (ft)		Closure Distance (ft)	Closure Direction Azimuth	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
Tie In	**0.00**	**0.00**	**0.00**												
1	860.00	1.67	152.42	860.00	859.88	-11.11	11.11	S	5.80	E	12.53	152.42	0.19	0.19	17.72
2	953.00	2.01	175.88	93.00	952.83	-13.94	13.94	S	6.55	E	15.40	154.84	0.88	0.37	25.23
3	1046.00	2.41	215.00	93.00	1045.77	-17.16	17.16	S	5.54	E	18.04	162.10	1.64	0.43	42.06
4	1139.00	2.17	250.08	93.00	1138.70	-19.37	19.37	S	2.77	E	19.56	171.87	1.50	-0.26	37.72
5	1232.00	1.23	275.24	93.00	1231.66	-19.88	19.88	S	0.12	E	19.88	179.67	1.27	-1.01	27.05
6	1325.00	0.77	273.35	93.00	1324.64	-19.75	19.75	S	1.50	W	19.80	184.35	0.50	-0.49	-2.03
7	1418.00	1.50	249.75	93.00	1417.62	-20.13	20.13	S	3.27	W	20.40	189.22	0.92	0.78	-25.38
8	1511.00	3.12	234.82	93.00	1510.55	-22.01	22.01	S	6.48	W	22.95	196.40	1.84	1.74	-16.05
9	1605.00	4.11	232.41	94.00	1604.36	-25.54	25.54	S	11.24	W	27.90	203.75	1.07	1.05	-2.56
10	1698.00	5.28	233.93	93.00	1697.04	-30.09	30.09	S	17.34	W	34.73	209.95	1.27	1.26	1.63
11	1791.00	5.78	238.24	93.00	1789.61	-35.08	35.08	S	24.78	W	42.95	215.24	0.70	0.54	4.63
12	1884.00	5.66	236.97	93.00	1882.15	-40.04	40.04	S	32.61	W	51.64	219.16	0.19	-0.13	-1.37
13	1978.00	5.53	237.84	94.00	1975.70	-44.98	44.98	S	40.33	W	60.41	221.88	0.17	-0.14	0.93
14	2071.00	5.77	238.83	93.00	2068.25	-49.78	49.78	S	48.12	W	69.24	224.03	0.28	0.26	1.06
15	2164.00	6.23	241.53	93.00	2160.74	-54.61	54.61	S	56.56	W	78.62	226.00	0.58	0.49	2.90
16	2257.00	7.44	241.80	93.00	2253.08	-59.86	59.86	S	66.30	W	89.32	227.92	1.30	1.30	0.29
17	2351.00	7.50	241.96	94.00	2346.28	-65.62	65.62	S	77.08	W	101.23	229.59	0.07	0.06	0.17
18	2444.00	6.92	241.06	93.00	2438.54	-71.18	71.18	S	87.34	W	112.67	230.82	0.64	-0.62	-0.97
19	2537.00	6.19	240.54	93.00	2530.93	-76.36	76.36	S	96.61	W	123.14	231.68	0.79	-0.78	-0.56
20	2630.00	5.89	241.11	93.00	2623.42	-81.13	81.13	S	105.15	W	132.81	232.35	0.33	-0.32	0.61
21	2723.00	5.76	243.29	93.00	2715.94	-85.54	85.54	S	113.50	W	142.12	233.00	0.28	-0.14	2.34
22	2816.00	6.03	242.43	93.00	2808.45	-89.89	89.89	S	121.99	W	151.54	233.61	0.31	0.29	-0.92
23	2909.00	6.33	242.37	93.00	2900.91	-94.53	94.53	S	130.87	W	161.44	234.16	0.32	0.32	-0.06
24	3002.00	6.59	241.91	93.00	2993.31	-99.42	99.42	S	140.12	W	171.81	234.64	0.29	0.28	-0.49
25	3095.00	6.34	241.86	93.00	3085.72	-104.36	104.36	S	149.35	W	182.20	235.06	0.27	-0.27	-0.05
26	3189.00	5.94	239.10	94.00	3179.18	-109.30	109.30	S	158.10	W	192.21	235.34	0.53	-0.43	-2.94
27	3282.00	5.77	238.61	93.00	3271.70	-114.21	114.21	S	166.22	W	201.68	235.51	0.19	-0.18	-0.53
28	3344.00	6.29	239.35	62.00	3333.36	-117.56	117.56	S	171.81	W	208.18	235.62	0.85	0.84	1.19
29	3439.00	6.55	239.56	95.00	3427.76	-122.96	122.96	S	180.95	W	218.78	235.80	0.27	0.27	0.22
30	3501.00	6.33	238.72	62.00	3489.37	-126.53	126.53	S	186.92	W	225.72	235.91	0.39	-0.35	-1.35
31	3594.00	7.78	239.56	93.00	3581.66	-132.38	132.38	S	196.73	W	237.13	236.06	1.56	1.56	0.90
32	3687.00	7.36	239.08	93.00	3673.85	-138.63	138.63	S	207.27	W	249.36	236.22	0.46	-0.45	-0.52
33	3781.00	7.20	240.70	94.00	3767.09	-144.61	144.61	S	217.57	W	261.25	236.39	0.28	-0.17	1.72
34	3874.00	6.89	237.75	93.00	3859.39	-150.44	150.44	S	227.37	W	272.63	236.51	0.51	-0.33	-3.17
35	3967.00	6.50	235.64	93.00	3951.76	-156.38	156.38	S	236.44	W	283.47	236.52	0.50	-0.42	-2.27

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Company:	EP Energy	**Job Number:**		**Calculation Method**	Minimum Curvature
Well:	Hamaker 3-25A1	**Mag Decl.:**		**Proposed Azimuth**	0.00
Location:	Uintah, UT	**Dir Driller:**		**Depth Reference**	KB
Rig:	Precision 404	**MWD Eng:**		**Tie Into:**	Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)		Coordinates E/W (ft)		Closure Distance (ft)	Closure Direction Azimuth	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
36	4060.00	7.45	240.28	93.00	4044.07	-162.34	162.34	S	246.02	W	294.75	236.58	1.19	1.02	4.99
37	4154.00	7.15	240.74	94.00	4137.31	-168.22	168.22	S	256.41	W	306.67	236.73	0.33	-0.32	0.49
38	4247.00	6.61	241.21	93.00	4229.64	-173.63	173.63	S	266.15	W	317.78	236.88	0.58	-0.58	0.51
39	4340.00	6.29	238.36	93.00	4322.05	-178.88	178.88	S	275.18	W	328.21	236.97	0.49	-0.34	-3.06
40	4433.00	6.05	235.52	93.00	4414.51	-184.33	184.33	S	283.56	W	338.21	236.97	0.42	-0.26	-3.05
41	4526.00	7.94	232.20	93.00	4506.81	-191.04	191.04	S	292.68	W	349.51	236.87	2.08	2.03	-3.57
42	4620.00	7.41	236.87	94.00	4599.97	-198.33	198.33	S	302.88	W	362.04	236.78	0.87	-0.56	4.97
43	4713.00	7.19	235.94	93.00	4692.22	-204.87	204.87	S	312.73	W	373.86	236.77	0.27	-0.24	-1.00
44	4806.00	6.91	235.05	93.00	4784.51	-211.33	211.33	S	322.13	W	385.27	236.73	0.32	-0.30	-0.96
45	4899.00	6.57	235.39	93.00	4876.87	-217.56	217.56	S	331.10	W	396.18	236.69	0.37	-0.37	0.37
46	4992.00	6.63	234.58	93.00	4969.26	-223.69	223.69	S	339.85	W	406.86	236.65	0.12	0.06	-0.87
47	5085.00	6.64	234.58	93.00	5061.63	-229.92	229.92	S	348.61	W	417.60	236.59	0.01	0.01	0.00
48	5179.00	6.56	233.95	94.00	5155.01	-236.23	236.23	S	357.38	W	428.40	236.53	0.11	-0.09	-0.67
49	5272.00	6.51	232.26	93.00	5247.41	-242.58	242.58	S	365.84	W	438.96	236.45	0.21	-0.05	-1.82
50	5365.00	6.46	232.03	93.00	5339.81	-249.03	249.03	S	374.14	W	449.44	236.35	0.06	-0.05	-0.25
51	5458.00	6.19	232.98	93.00	5432.24	-255.27	255.27	S	382.26	W	459.66	236.27	0.31	-0.29	1.02
52	5551.00	6.60	236.75	93.00	5524.67	-261.22	261.22	S	390.74	W	470.01	236.24	0.63	0.44	4.05
53	5644.00	8.01	238.73	93.00	5616.91	-267.51	267.51	S	400.74	W	481.83	236.28	1.54	1.52	2.13
54	5737.00	7.40	238.54	93.00	5709.07	-274.00	274.00	S	411.39	W	494.29	236.34	0.66	-0.66	-0.20
55	5830.00	6.47	237.80	93.00	5801.39	-279.92	279.92	S	420.93	W	505.51	236.38	1.00	-1.00	-0.80
56	5923.00	5.66	237.07	93.00	5893.87	-285.20	285.20	S	429.22	W	515.33	236.40	0.87	-0.87	-0.78
57	6017.00	5.90	239.31	94.00	5987.39	-290.19	290.19	S	437.26	W	524.79	236.43	0.35	0.26	2.38
58	6110.00	7.07	237.62	93.00	6079.79	-295.69	295.69	S	446.21	W	535.29	236.47	1.27	1.26	-1.82
59	6203.00	6.28	235.11	93.00	6172.16	-301.67	301.67	S	455.21	W	546.10	236.47	0.91	-0.85	-2.70
60	6296.00	6.41	230.42	93.00	6264.59	-307.89	307.89	S	463.39	W	556.35	236.40	0.57	0.14	-5.04
61	6389.00	6.88	226.43	93.00	6356.97	-315.03	315.03	S	471.42	W	567.00	236.25	0.71	0.51	-4.29
62	6482.00	7.71	219.56	93.00	6449.22	-323.68	323.68	S	479.43	W	578.47	235.98	1.29	0.89	-7.39
63	6576.00	7.32	220.89	94.00	6542.41	-333.07	333.07	S	487.37	W	590.31	235.65	0.45	-0.41	1.41
64	6669.00	6.86	223.13	93.00	6634.70	-341.60	341.60	S	495.04	W	601.47	235.39	0.58	-0.49	2.41
65	6762.00	6.91	221.89	93.00	6727.03	-349.82	349.82	S	502.58	W	612.34	235.16	0.17	0.05	-1.33
66	6855.00	5.88	220.59	93.00	6819.45	-357.60	357.60	S	509.41	W	622.40	234.93	1.12	-1.11	-1.40
67	6948.00	5.08	222.06	93.00	6912.02	-364.28	364.28	S	515.27	W	631.03	234.74	0.87	-0.86	1.58
68	7041.00	4.48	223.58	93.00	7004.70	-369.97	369.97	S	520.53	W	638.61	234.60	0.66	-0.65	1.63
69	7135.00	4.75	224.46	94.00	7098.39	-375.40	375.40	S	525.79	W	646.05	234.47	0.30	0.29	0.94
70	7228.00	4.70	221.98	93.00	7191.08	-380.98	380.98	S	531.03	W	653.56	234.34	0.23	-0.05	-2.67
71	7321.00	4.28	222.20	93.00	7283.79	-386.39	386.39	S	535.91	W	660.68	234.21	0.45	-0.45	0.24
72	7414.00	3.34	222.21	93.00	7376.58	-390.96	390.96	S	540.07	W	666.73	234.10	1.01	-1.01	0.01

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Company:	EP Energy	**Job Number:**		**Calculation Method**	Minimum Curvature
Well:	Hamaker 3-25A1	**Mag Decl.:**		**Proposed Azimuth**	0.00
Location:	Uintah, UT	**Dir Driller:**		**Depth Reference**	KB
Rig:	Precision 404	**MWD Eng:**		**Tie Into:**	Gyro/MWD

Survey Number	Survey Depth (ft)	Inclina-tion (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)		Coordinates E/W (ft)		Closure Distance (ft)	Closure Direction Azimuth	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
73	7507.00	1.92	175.96	93.00	7469.49	-394.53	394.53	S	541.78	W	670.20	233.94	2.63	-1.53	-49.73
74	7600.00	1.65	158.22	93.00	7562.45	-397.32	397.32	S	541.17	W	671.36	233.71	0.66	-0.29	-19.08
75	7694.00	1.49	154.05	94.00	7656.41	-399.68	399.68	S	540.13	W	671.93	233.50	0.21	-0.17	-4.44
76	7787.00	1.36	161.09	93.00	7749.38	-401.81	401.81	S	539.25	W	672.49	233.31	0.23	-0.14	7.57
77	7880.00	1.49	161.81	93.00	7842.35	-404.00	404.00	S	538.51	W	673.21	233.12	0.14	0.14	0.77
78	7973.00	1.42	144.68	93.00	7935.33	-406.09	406.09	S	537.47	W	673.63	232.93	0.47	-0.08	-18.42
79	8066.00	1.60	124.90	93.00	8028.29	-407.78	407.78	S	535.74	W	673.27	232.72	0.59	0.19	-21.27
80	8159.00	1.90	122.51	93.00	8121.25	-409.35	409.35	S	533.37	W	672.35	232.49	0.33	0.32	-2.57
81	8253.00	1.72	115.53	94.00	8215.20	-410.79	410.79	S	530.78	W	671.18	232.26	0.30	-0.19	-7.43
82	8346.00	1.72	114.74	93.00	8308.16	-411.98	411.98	S	528.26	W	669.91	232.05	0.03	0.00	-0.85
83	8439.00	1.63	108.83	93.00	8401.12	-412.99	412.99	S	525.74	W	668.55	231.85	0.21	-0.10	-6.35
84	8532.00	1.57	109.08	93.00	8494.09	-413.83	413.83	S	523.28	W	667.14	231.66	0.06	-0.06	0.27
85	8625.00	1.45	107.46	93.00	8587.05	-414.60	414.60	S	520.95	W	665.80	231.49	0.14	-0.13	-1.74
86	8718.00	1.75	105.98	93.00	8680.02	-415.35	415.35	S	518.47	W	664.32	231.30	0.33	0.32	-1.59
87	8811.00	1.74	112.15	93.00	8772.97	-416.27	416.27	S	515.79	W	662.81	231.09	0.20	-0.01	6.63
88	8904.00	1.46	116.56	93.00	8865.94	-417.33	417.33	S	513.43	W	661.64	230.89	0.33	-0.30	4.74
89	8997.00	1.11	119.29	93.00	8958.91	-418.30	418.30	S	511.58	W	660.83	230.73	0.38	-0.38	2.94
90	9090.00	1.26	130.36	93.00	9051.89	-419.40	419.40	S	510.02	W	660.32	230.57	0.29	0.16	11.90
91	9183.00	1.30	133.19	93.00	9144.87	-420.79	420.79	S	508.47	W	660.00	230.39	0.08	0.04	3.04
92	9276.00	1.75	126.24	93.00	9237.84	-422.35	422.35	S	506.55	W	659.53	230.18	0.52	0.48	-7.47
93	9369.00	1.82	123.27	93.00	9330.79	-424.00	424.00	S	504.17	W	658.76	229.94	0.12	0.08	-3.19
94	9462.00	1.67	128.47	93.00	9423.75	-425.65	425.65	S	501.88	W	658.07	229.70	0.23	-0.16	5.59
95	9555.00	1.33	120.71	93.00	9516.72	-427.05	427.05	S	499.89	W	657.46	229.49	0.43	-0.37	-8.34
96	9659.00	1.14	126.49	104.00	9620.69	-428.28	428.28	S	498.02	W	656.85	229.31	0.22	-0.18	5.56
97	9752.00	1.16	131.02	93.00	9713.67	-429.45	429.45	S	496.57	W	656.51	229.15	0.10	0.02	4.87
98	9846.00	1.26	138.68	94.00	9807.65	-430.85	430.85	S	495.17	W	656.37	228.97	0.20	0.11	8.15
99	10000.00	1.20	147.95	154.00	9961.62	-433.48	433.48	S	493.19	W	656.62	228.69	0.14	-0.04	6.02
100	10100.00	1.26	159.68	100.00	10061.59	-435.40	435.40	S	492.26	W	657.18	228.51	0.26	0.07	11.73
101	10200.00	1.08	163.03	100.00	10161.57	-437.34	437.34	S	491.60	W	657.98	228.34	0.19	-0.18	3.35
102	10300.00	0.97	140.37	100.00	10261.56	-438.90	438.90	S	490.78	W	658.40	228.19	0.42	-0.11	-22.66
103	10400.00	0.81	137.13	100.00	10361.55	-440.07	440.07	S	489.76	W	658.43	228.06	0.17	-0.16	-3.24
104	10500.00	1.41	122.80	100.00	10461.53	-441.26	441.26	S	488.24	W	658.09	227.89	0.66	0.60	-14.32
105	10600.00	0.90	115.79	100.00	10561.51	-442.27	442.27	S	486.49	W	657.48	227.73	0.53	-0.51	-7.01
106	10700.00	1.00	112.14	100.00	10661.49	-442.94	442.94	S	484.97	W	656.81	227.59	0.12	0.10	-3.65
107	10800.00	1.30	108.25	100.00	10761.47	-443.63	443.63	S	483.09	W	655.88	227.44	0.31	0.30	-3.89
108	10900.00	1.23	110.22	100.00	10861.45	-444.35	444.35	S	481.01	W	654.84	227.27	0.08	-0.07	1.97
109	11000.00	1.20	114.03	100.00	10961.43	-445.15	445.15	S	479.04	W	653.94	227.10	0.09	-0.03	3.81

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Company:	EP Energy	**Job Number:**		**Calculation Method**	Minimum Curvature
Well:	Hamaker 3-25A1	**Mag Decl.:**		**Proposed Azimuth**	0.00
Location:	Uintah, UT	**Dir Driller:**		**Depth Reference**	KB
Rig:	Precision 404	**MWD Eng:**		**Tie Into:**	Gyro/MWD

Survey Number	Survey Depth (ft)	Inclina-tion (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)		Coordinates E/W (ft)		Closure Distance (ft)	Closure Direction Azimuth	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
110	11100.00	1.67	115.04	100.00	11061.39	-446.19	446.19	S	476.77	W	652.99	226.90	0.48	0.48	1.01
111	11200.00	1.27	102.84	100.00	11161.36	-447.05	447.05	S	474.37	W	651.83	226.70	0.51	-0.41	-12.20
112	11300.00	1.47	94.72	100.00	11261.33	-447.41	447.41	S	472.01	W	650.36	226.53	0.28	0.20	-8.12
113	11400.00	1.71	88.45	100.00	11361.29	-447.47	447.47	S	469.24	W	648.40	226.36	0.29	0.24	-6.27
114	11500.00	1.72	86.64	100.00	11461.25	-447.34	447.34	S	466.25	W	646.15	226.19	0.06	0.02	-1.81
115	11600.00	2.05	97.20	100.00	11561.19	-447.48	447.48	S	462.97	W	643.88	225.97	0.48	0.33	10.56
116	11700.00	2.04	88.42	100.00	11661.13	-447.65	447.65	S	459.42	W	641.45	225.74	0.31	-0.02	-8.78
117	11800.00	1.80	93.30	100.00	11761.08	-447.70	447.70	S	456.07	W	639.09	225.53	0.29	-0.24	4.89
118	11900.00	1.62	111.58	100.00	11861.03	-448.30	448.30	S	453.20	W	637.47	225.31	0.57	-0.19	18.28
119	12000.00	1.59	111.37	100.00	11960.99	-449.33	449.33	S	450.59	W	636.34	225.08	0.03	-0.03	-0.21
120	12100.00	1.57	107.96	100.00	12060.95	-450.26	450.26	S	448.00	W	635.16	224.86	0.10	-0.02	-3.41
121	12200.00	1.21	138.08	100.00	12160.93	-451.47	451.47	S	445.99	W	634.61	224.65	0.80	-0.36	30.12
122	12300.00	1.69	133.08	100.00	12260.89	-453.26	453.26	S	444.20	W	634.63	224.42	0.49	0.47	-5.00
123	12400.00	1.44	144.64	100.00	12360.86	-455.29	455.29	S	442.40	W	634.83	224.18	0.40	-0.25	11.57
124	12500.00	1.35	146.57	100.00	12460.83	-457.30	457.30	S	441.03	W	635.31	223.96	0.10	-0.08	1.93
125	12600.00	1.88	140.55	100.00	12560.79	-459.55	459.55	S	439.33	W	635.77	223.71	0.55	0.53	-6.02
126	12700.00	1.70	136.20	100.00	12660.74	-461.88	461.88	S	437.27	W	636.03	223.43	0.22	-0.18	-4.36
127	12800.00	2.07	148.63	100.00	12760.68	-464.50	464.50	S	435.30	W	636.59	223.14	0.55	0.37	12.43
128	12900.00	1.49	153.08	100.00	12860.64	-467.20	467.20	S	433.77	W	637.52	222.87	0.60	-0.58	4.45
129	13000.00	1.78	152.22	100.00	12960.59	-469.74	469.74	S	432.45	W	638.49	222.63	0.29	0.29	-0.86
130	13100.00	2.14	156.49	100.00	13060.54	-472.83	472.83	S	430.98	W	639.78	222.35	0.39	0.36	4.28
131	13200.00	1.91	145.89	100.00	13160.47	-475.92	475.92	S	429.30	W	640.94	222.05	0.44	-0.24	-10.61
132	13300.00	1.71	157.40	100.00	13260.42	-478.68	478.68	S	427.79	W	641.98	221.79	0.41	-0.20	11.51
133	13400.00	1.83	142.24	100.00	13360.38	-481.32	481.32	S	426.24	W	642.93	221.53	0.48	0.12	-15.16
134	13500.00	1.92	161.60	100.00	13460.32	-484.18	484.18	S	424.73	W	644.07	221.26	0.64	0.09	19.36
135	13600.00	2.20	156.07	100.00	13560.26	-487.52	487.52	S	423.42	W	645.73	220.98	0.34	0.28	-5.52
136	13700.00	2.05	155.82	100.00	13660.19	-490.91	490.91	S	421.91	W	647.30	220.68	0.15	-0.15	-0.26
137	13763.00	1.86	156.37	63.00	13723.15	-492.87	492.87	S	421.04	W	648.23	220.51	0.31	-0.31	0.87
138	13920.00	1.86	156.37	157.00	13880.07	-497.53	497.53	S	419.00	W	650.46	220.10	0.00	0.00	0.00

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CENTRAL DIVISION

ALTAMONT FIELD
HAMAKER 3-25A1
HAMAKER 3-25A1
DRILLING LAND

Operation Summary Report

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1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	HAMAKER 3-25A1		
Project	ALTAMONT FIELD	**Site**	HAMAKER 3-25A1
Rig Name/No.	PRECISION DRILLING/404	**Event**	DRILLING LAND
Start date	10/6/2014	**End date**	
Spud Date/Time	12/1/2014	**UWI**	HAMAKER 3-25A1
Active datum	KB @5,475.6ft (above Mean Sea Level)		
Afe No./Description	147644/52496 / HAMAKER 3-25A1		

2 Summary

2.1 Operation Summary

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
11/28/2014	6:00	7:00	1.00	CASCOND	25		P	817.0	BUCKET RIG, SPUD WELL: 10:00 HRS 10/20/2014 - DRILLED 24" HOLE 40', INSTALLED 20" CONDUCTOR PIPE SET AT 40' - DRILLED 80' OF 24" MOUSE HOLE. SET 14" MOUSE HOLE PIPE, SAND GROUTED BOTH PIPES IN PLACE. DRILLED PRE SET TO 817 'GL. RAN AND CEMENTED 19 JOINTS (804.73') OF 13-3/8" 54.5# J-55 STC CASING. SHOE AT 801' GL. CEMENT WITH 1,000 SACKS CLASS G, 15.8 PPG 1.15 YIELD, 5 GALLONS PER SACK WATER, 1/4# / SK. FLOCELLE WITH 2% CA/CL. BUMPED PLUG, FLOATS HELD. HAD 57 BBLS OF GOOD CEMENT BACK TO SURFACE. CEMENT DID NOT FALL BACK - CIP 04:08 HRS NOV. 09, 2014.
	7:00	6:00	23.00	MIRU	01		P	817.0	HPJSM WESTROC TRUCKING, PRECISON DRILLING - RIG MOVE 49 MILES TO HAMAKER 3-25A1 FROM DWR 4-32B5 - 100% RIGGED DOWN, 90% LOADED OUT, 30 % MOVED, 30% RIG UP.
11/29/2014	6:00	18:00	12.00	MIRU	01		P	817.0	MOVE RIG F/ DWR 4-32B5. 90% MOVED, 50% RIGGED UP
	18:00	6:00	12.00	MIRU	01		P	817.0	SHUT DOWN FOR DARK.
11/30/2014	6:00	4:30	22.50	MIRU	01		P	817.0	RU & RAISE DERRICK, RU FLOOR. PICK UP AND RU TOP DRIVE.
	4:30	6:00	1.50	DRLSURF	28		P	817.0	NU CHOKE, FLARE LINES. 100% RIG MOVED, 80% RIGGED UP.
12/1/2014	6:00	14:30	8.50	MIRU	01		P	817.0	FINISHED RIGGING UP TDU, CHANGED SAVER SUBS. RESET CENTRIFUGE. RIGGED UP FLARE STACK AND LINES. TESTED CHOKE MANIFOLD TO 250 PSI LOW, 3,000 PSI HIGH WHILE COMPLETING RIG UP. RIG ON DAY RATE @ 14:30 HRS 11/30/2014
	14:30	20:00	5.50	CASSURF	28		P	817.0	TESTED DIVERTER VALVES TO 250 PSI LOW, 3,000 PSI HIGH. TESTED ANNULAR TO 250 PSI LOW, 2,500 PSI HIGH. 10 MINUTES EACH TEST. TESTED FLOOR VALVES TO 250 PSI LOW, 3,000 PSI HIGH. TESTED STAND PIPE, IBOP TO 250 LOW, 4,000 PSI HIGH. 10 MINUTES EACH TEST.
	20:00	23:00	3.00	CASSURF	28		P	817.0	INSTALLED RH AND RISER, FLOWLINE.
	23:00	1:30	2.50	CASSURF	13		P	817.0	PU MU 12-1/4" BAKER DP506FX BIT & WEATHERFORD'S DIRECTIONAL ASSEMBLY: HUNTING 8.00" OD FIXED 1.5 DEG. L: 7/8, S: 4.0 REV: 0.17 - SCRIBED TOOLS, TEST.
	1:30	4:00	2.50	CASSURF	14		P	817.0	PU MU (2) 8-3/4" DC'S, (7) 8" DC'S, 9 JTS 4 1/2" HWDP.
	4:00	6:00	2.00	CASSURF	17		P	817.0	SLIP & CUT DL.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
12/2/2014	6:00	6:30	0.50	CASSURF	17		P	817.0	FINISHED SLIP AND CUT OF DRILLING LINE. TEMPETURE 25 DEGREES.
	6:30	7:00	0.50	CASSURF	47		N	817.0	INSTALL CORROSION RIG - M/U STD IN MOUSE HOLE - ZECO PLUGGED IN A 110 VOLT LINE FOR FLARE IGNITER, SHORTED OUT TDU, BLEW A FUSE.
	7:00	8:00	1.00	CASSURF	43		P	817.0	TIH - TAGGED UPON CMT AT 727'.
	8:00	8:30	0.50	CASSURF	15		P	817.0	CIRCULATE WATER, AIR OUT OF CASING FOR CASING TEST.
	8:30	9:00	0.50	CASSURF	31		P	817.0	PRESSURE UP 13 3/8" CASING TO 1,080 PSI - BLEED OFF TO 1,055 PSI (25 PSI) IN 30 MINUTES.
	9:00	11:30	2.50	CASSURF	32		P	817.0	CLEAN OUT CEMENT AND SHOE TRACK TO 817'.
	11:30	1:30	14.00	DRLSURF	08		P	817.0	DRILLED 817' - 1,854' - SPUD @ 11:30 HRS 12/01/2014 - NOTE: SAW AN INCREASE OF VOLUME FROM 928' / 1139' - GAINED 146 BBLS, NO FLOW ON CONNECTIONS, CUT VIS 55 TO 47, NO CHLORIDE INCREASE - RAISED MUD WT 10.5 PPG TO 10.8 PPG, NO MORE INCREASE IN VOLUME.
	1:30	2:00	0.50	DRLSURF	12		P	1,854.0	SERVICED RIG & TDU.
	2:00	5:30	3.50	DRLSURF	08		P	1,854.0	DRILLED 1,854' - 2189'.
	5:30	6:00	0.50	DRLSURF	45		N	2,189.0	WORK ON MUD PUMP #2.
12/3/2014	6:00	14:00	8.00	DRLSURF	08		P	2,189.0	DRILLED, 2,189' - 2,701'.
	14:00	14:30	0.50	DRLSURF	12		P	2,701.0	SERVICED RIG & TDU.
	14:30	23:00	8.50	DRLSURF	08		P	2,701.0	DRILLED, 2,701' - 3,162'. ENCOUNTERED BENTONITE, CO2 CONTAMINATION @ 3,052', THICKENING MUD. TREATED W/ LIME, GYP, WATER.
	23:00	23:30	0.50	DRLSURF	12		P	3,162.0	SERVICED RIG & TDU.
	23:30	2:00	2.50	DRLSURF	08		P	3,162.0	DRILLED, 3,162' - 3,254'.
	2:00	3:00	1.00	DRLSURF	47		N	3,254.0	GENERATOR # 1 OVERHEATED AND SHUT DOWN. TROUBLESHOOT SAME, (FOUND BENDEX ON STARTER PARTIALLY ENGAGED FLYWHEEL). PUT GENERATOR BACK ON LINE.
	3:00	4:00	1.00	DRLSURF	08		P	3,254.0	DRILLED, 3,254' - 3,294'. LOST 800PSI.
	4:00	4:30	0.50	DRLSURF	45		N	3,294.0	FOUND WASHED POPOFF ON #1 PUMP. REPAIRED SAME.
	4:30	5:00	0.50	DRLSURF	08		P	3,294.0	DRILLED, 3,294' - 3,310'. LOST 500 PSI. BLEW NAIL ON PUMP # 1@ 2,500 PSI.
	5:00	5:30	0.50	DRLSURF	45		N	3,310.0	RECALIBRATED PASON PRESSURE. 300 PSI, LOWER. PUMPING WITH 650 GPM @ 90 SPM, BOTH PUMPS. 2350 PSI
	5:30	6:00	0.50	DRLSURF	08		P	3,310.0	DRILLED, 3,310' - 3,350'.
12/4/2014	6:00	9:00	3.00	DRLSURF	08		P	3,350.0	DRILL 3,350' - 3,415' TD SURFACE SECTION HOLE.
	9:00	10:30	1.50	DRLSURF	15		P	3,415.0	CIRCULATE AND CONDITION MUD, REDUCE YP: 12 FOR WIPER TRIP.
	10:30	12:00	1.50	DRLSURF	13		P	3,415.0	TOOH, HAD INTER MITTEN RESISTANCE 20 / 40 K OVER PULL F. 3,415' / 2,503' HOLE PULLED TIGHT 50 K.
	12:00	21:30	9.50	DRLSURF	51		P	3,415.0	BACK REAM TIGHT HOLE F. 2,503' BACK UP INTO 13 3/8" CSG SHOE AT 818' NOTE: HOLE WANTING TO PACK OFF, PUMPED HIGH VIS SWEEPS, HAD GOOD AMOUNT OF FORMATION BACK TO SURFACE, VERY SLOW REAMING OUT DUE TO HOLE WANTING TO PACK OFF - PULLED BACK UP TO BHA AND DIRECTIONAL TOOLS.
	21:30	0:30	3.00	DRLSURF	14		P	3,415.0	STAND BACK DRILL COLLAR'S, L/D DIRECTIONAL TOOLS, BIT. NOTE : WEAR PAD ON MM & BIT JUNK SLOTS BALLED UP W/ CLAY.
	0:30	2:30	2.00	DRLSURF	13		P	3,415.0	MAKE UP C/O BIT, 12-1/4" HTC TRI CONE INSERT W/ 3X20s. TIH WITH DC'S, HWDP. INSTALLED RH RUBBER.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	2:30	6:00	3.50	DRLSURF	12		P	3,415.0	STOPPED @ 730', WASHED DOWN, CONTINUED IN HOLE. C & CM @ 1,528'. STOPPED @ 2,666', WASH AND REAM INTERMITTENT TIGHT SPOTS TO 2,820' - TIH TO 3,418' TAGGED UP ON 7' OF FILL, WASHED DOWN SAME TO 3,415'..
12/5/2014	6:00	9:00	3.00	DRLSURF	15		P	3,415.0	CIRCULATE AND CONDITION MUD - PUMPED 2 HI-VIS LCM SWEEPS, HAD GOOD AMOUNT OF FORMATION COMING BACK WHILE CIRCULATING SWEEPS, HAD PEANUT BUTTER VIS W/ 9.2 PH BACK TO SURFACE - HAD LIGHT AMOUNT OF FORMATION COME BACK WITH SWEEP TO SURFACE - CUT YIELD PT FOR RUNNING OF CSG.
	9:00	12:00	3.00	CASSURF	13		P	3,415.0	TOOH UP INTO 13 3/8" SHOE AT 818' MD - PULLED ROTATING HEAD RUBBER. NOTE: HAD ONLY ONE REAL TIGHT SPOT AT 1,871' - REAMED THRU SAME ONE TIME, DISAPPEARED - SAW A QUICK FLICKER OF RESISTANCE AT 1,154' OF 30 K OVER PULL, CLEAN ALL AREAS OF OPEN HOLE - FLOW CHECKED AT 13 3/8" SHOE, NO FLOW!.
	12:00	14:30	2.50	CASSURF	14		P	3,415.0	LAY DOWN BHA, AND BIT.
	14:30	15:30	1.00	CASSURF	24		P	3,415.0	CLEAR RIG FLOOR FOR RUNNING OF 9 5/8" SFC CSG - C/O TO LONG ELEVATOR BAILS.
	15:30	1:30	10.00	CASSURF	24		P	3,415.0	HPJSM, FRANKS, PRECISION - P/U CSG TOOLS - MU SHOE TRACK, 9 5/8" N-80 LTC CASING, PUMPED THRU SAME, OK - RIH W/ SAME, FILL EVERY 850' - CIRCULATED BOTTOMS UP @ 817' SHOE, 1,700', CLEAN OUT BRIDGE @ 2,853', 3,342'. WASHED DOWN LAST JOINT TO 3,415' - RAN A TOTAL OF 85 JOINTS (3,413') OF 9 5/8" N-80 LTC CASING. NOTE: WAS INFORMED BY HALLIBURTON DISPATCH THAT NO CREW AVAILABLE UNTIL 7 AM!!
	1:30	2:30	1.00	CASSURF	15		P	3,415.0	CIRCULATE 9 5/8" SFC CSG @ 515 GPM - R/D CSG CREW.
	2:30	6:00	3.50	CASSURF	65		N		WAITING ON HALLIBURTON CEMENT PUMP TRUCK AND CREWS TO ARRIVE ON LOCATION!
12/6/2014	6:00	7:00	1.00	CASSURF	65		N	3,415.0	WAITING ON HOWCO TO ARRIVE ON LOCATION - HOWCO ARIVED AT 07;00 HRS 12/05/2014.
	7:00	10:00	3.00	CASSURF	25		P	3,415.0	HOWCO SPOTTED IN PUMP TRUCK, TAIL, TUNED SPACER TRUCKS, R/U SAME - HPJSM HOWCO, PRECISION - INSTALLED CEMENTIG HEAD.
	10:00	12:30	2.50	CASSURF	25		P	3,415.0	PUMPED 3 BBLS FW AHEAD, TESTED PUMP & LINES TO 5,000 PSI, OK - PUMPED 43 BBLS FW, 40 BBLS OF 12.0 PPG TUNED SPACER - PUMPED 288 BBLS OR 725 SKS OF LEAD CMT: 12.0 PPG, M/W: 13.12 GP/SK, Y: 2.23 CUFT / SK, TAIL CMT: 49 BBLS OR 210 SKS AT 14.3 PPG, M/W: 5.91 GP/SK - DISPLACED TOP PLUG WITH 250 BBLS OF MUD - BUMPED PLUG WITH 950 PSI, CIP: 12:12 HRS 12/05/2014 - HAD 1 BBL FLOW BACK, FLOATS HELD - HAD 75 BBLS OR 189 SK'S GOOD CEMENT BACK TO SURFACE - FLUSHED DIVERTER STACK WITH 20 BBLS OF SUGAR WATER - SHUT IN DIVERTER ON 9 5/8" CSG - INSTALLED PRESSURE GAUGE ON 2" BALL VALVE TO MONITOR POSSIBLE PRESSURE.
	12:30	18:00	5.50	CASSURF	25		P	3,415.0	MONITOR FOR ANNULUS PRESSURE ON 13 3/8" SFC CONDUCTOR CSG AND 9 5/8" SFC CSG - NO PRESSURE SEEN, OR FLOW!.
	18:00	23:00	5.00	CASSURF	29		P	3,415.0	CUT OFF 9-5/8" CASING, ND DIVERTER STACK. CUT OFF 13-5/8. HEAD.
	23:00	2:00	3.00	CASSURF	27		P	3,415.0	WELDED ON 9.625" 5M WELLHEAD. TESTED WELD 1500 PSI 10 MINS, OK.
	2:00	6:00	4.00	CASSURF	28		P	3,415.0	INSTALLED "B" ASSEMBLY, 11" 10M BOP STACK, 11" ANNULAR. INSTALLED HCR VALVE, KILL LINE, CHOKE LINE.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	6:00	8:30	2.50	CASSURF	28		P	3,415.0	FINISHED NU CHOKE, KILL LINES, KOOMEY LINES, ROTATING HEAD, FLOW LINE.
	8:30	11:30	3.00	CASSURF	28		P	3,415.0	WEATHERFORD WELL HEAD CREW TORQUED UP ALL BREAK POINTS.
	11:30	16:30	5.00	CASSURF	19		P	3,415.0	PJSM. INSTALL TEST PLUG.TEST PIPE RAMS, BLIND RAMS, KILL LINE VALVES, CHOKE LINES AND UPPER / LOWER KELLY VALVES TO 250PSI LOW / 5,000 HIGH PSI - PSI TEST ANNULAR TO 250 PSI LOW / 2500 PSI HIGH AND HELD FOR 10 MINUTES EACH TEST. CHARTED ALL TESTS - TESTED CSG TO 2,500 PSI FOR 30 MINUTES, OK!
	16:30	19:00	2.50	CASSURF	48		N	3,415.0	LOWER VARIABLE BORE PIPE RAMS FAILED. CHANGED PIPE RAMS. INSTALLED STANDARD 4-1/2" RAMS.
	19:00	21:30	2.50	CASSURF	19		P	3,415.0	TESTED LOWER PIPE RAMS, 250 PSI LOW, 5000 PSI HIGH. TESTED ACCUMULATOR. PULLED TEST PLUG, INSTALLED WEAR BUSHING. TESTED CHOKE MANIFOLD TO 250 LOW, 10,000 PSI HIGH, HELD FOR 10 MINUTES EACH TEST.
	21:30	0:30	3.00	CASSURF	13		P	3,415.0	PU MU WEATHERFORD'S 8-3/4" DIRECTIONAL ASSEMBLY. PUMU 16- 6-1/2" D.C.'S.
	0:30	1:00	0.50	CASSURF	12		P	3,415.0	SERVICED RIG & TDU. REPAIRED LEAK ON HYDRAULIC HOSE ON LINK TILT.
	1:00	2:30	1.50	CASSURF	13		P		TIH TO 3,355'.
	2:30	3:00	0.50	CASSURF	33		P	3,415.0	CIRCULATED 9.6 MUD AROUND. PERFORMED CASING TEST FOR FIT PARAMETER.
	3:00	4:00	1.00	CASSURF	32		P	3,415.0	DRILL OUT FE & 10' FORMATION.
	4:00	4:30	0.50	DRLINT1	33		P	3,425.0	PERFORMED FIT W/ 9.6 PPG MW. APPLIED 1026 PSI SURFACE PRESSURE, BLED TO 970 PSI, 15.1 PPG EQUIVALENT MW.
	4:30	6:00	1.50	DRLINT1	07		P	3,425.0	DRILLED, 3,425' - 3,550'
12/8/2014	6:00	11:30	5.50	DRLINT1	07		P	3,550.0	DRILLED, 3,550' - 4,031'.
	11:30	12:00	0.50	DRLINT1	12		P	4,031.0	SERVICED RIG & TDU.
	12:00	12:30	0.50	DRLINT1	43		N	4,031.0	CHANGE OUT HYDRAULIC FITTING ON TDU.
	12:30	3:30	15.00	DRLINT1	07		P	4,031.0	DRILLED, 4,031' - 4,959'.
	3:30	4:00	0.50	DRLINT1	12		P	4,959.0	SERVICED RIG & TDU.
	4:00	6:00	2.00	DRLINT1	07		P	4,959.0	DRILLED, 4,959' - 5,050'.
12/9/2014	6:00	13:30	7.50	DRLINT1	07		P	5,050.0	DRILL 5,050' - 5,519'.
	13:30	14:00	0.50	DRLINT1	12		P	5,519.0	RIG SERVICE.
	14:00	18:00	4.00	DRLINT1	07		P	5,519.0	DRILL 5,519' - 5,719'.
	18:00	0:00	6.00	DRLINT1	45		N	5,719.0	#2 PUMP MODULE WASHED OUT, CHANGED OUT MODULES.
	0:00	0:30	0.50	DRLINT1	07		P	5,719.0	SERVICED RIG & TDU.
	0:30	6:00	5.50	DRLINT1	07		P	5,719.0	DRILLED, 5,719' - 5,940'.
12/10/2014	6:00	14:00	8.00	DRLINT1	07		P	5,940.0	DRILL 5,940' - 6,149'. NOTE: AT 6,054' STARTED LOSING 180 BPH.
	14:00	14:30	0.50	DRLINT1	12		P	6,149.0	RIG SERVICE.
	14:30	1:00	10.50	DRLINT1	07		P	6,149.0	DRILL 6,149' - 6,546 '.
	1:00	1:30	0.50	DRLINT1	12		P	6,546.0	SERVICED RIG & TDU.
	1:30	6:00	4.50	DRLINT1	07		P	6,545.0	DRILL 6,545' - 6,650'.
12/11/2014	6:00	11:30	5.50	DRLINT1	07		P	6,650.0	DRILLING FROM 6650' TO 6836'
	11:30	12:30	1.00	DRLINT1	45		N	6,836.0	GO THROUGH #1 PUMP
	12:30	15:00	2.50	DRLINT1	07		P	6,836.0	DRILLING FROM 6836' TO 6916'
	15:00	15:30	0.50	DRLINT1	12		P	6,916.0	RIG SERVICE
	15:30	18:00	2.50	DRLINT1	07		P	6,916.0	DRILLING FROM 6916' T/6950'
	18:00	0:00	6.00	DRLINT1	07		P		PTSM WITH RIG CREW. DRILL F/6950' - T/7075'
	0:00	1:00	1.00	DRLINT1	07		P		DRILL F/7075' - T/7105'.
	1:00	1:30	0.50	DRLINT1	12		P		RIG SERVICE.
	1:30	6:00	4.50	DRLINT1	07		P		DRILL F/7105 - T/7190'.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
12/12/2014	6:00	7:00	1.00	DRLINT1	07		P	7,090.0	DRILLING FROM 7090' TO 7221'
	7:00	7:30	0.50	DRLINT1	15		P	7,221.0	CIRCULATE BU FOR BIT TRIP.
	7:30	14:30	7.00	DRLINT1	13		P	7,221.0	FLOW CHECK @ 7200',3350',865' - NO FLOW, TFB #4, TOOH F/7200' - T/865'. BACK REAM F/4963' - T/4867'.
	14:30	15:30	1.00	DRLINT1	13		P	7,221.0	TOOH W/BHA F/865' - T/107'.
	15:30	17:00	1.50	DRLINT1	13		P	7,221.0	LAYDOWN MOTOR ,MWD TOOL, BIT.
	17:00	17:30	0.50	DRLINT1	12		P	7,221.0	RIG SERVICE.
	17:30	19:30	2.00	DRLINT1	13		P	7,221.0	MAKE UP NEW BIT, MOTOR, MWD. ORIENT MTR, SCRIBE MOTOR.
	19:30	20:00	0.50	DRLINT1	13		P	7,221.0	TIH W/ 6.5" DRILL COLLARS, AND 4.5 HWDP.
	20:00	0:00	4.00	DRLINT1	13		P	7,221.0	INSTALL ROTATING HEAD RUBBER. TIH F/900' - T/6915'.
	0:00	1:30	1.50	DRLINT1	15		P	7,221.0	TIH T/6915'. INCOUNTERED TIGHT SPOT AND LOSSES. CIRCULATE WHILE BUILDING VOLUME, AND WORKING PIPE.
	1:30	2:30	1.00	DRLINT1	16		P	7,221.0	WASH/REAM TO BOTTOM F/6915' - T/7221'.
	2:30	5:00	2.50	DRLINT1	07		P	7,221.0	DRILL F/7221- T/7350'.
	5:00	5:30	0.50	DRLINT1	12		P	7,350.0	RIG SERVICE.
	5:30	6:00	0.50	DRLINT1	07		P	7,350.0	DRILL F/7350- T/7375'
12/13/2014	6:00	15:30	9.50	DRLINT1	07		P	7,375.0	DRILLING FROM 7375' TO 7942'
	15:30	16:00	0.50	DRLINT1	12		P	7,942.0	RIG SERVICE
	16:00	18:00	2.00	DRLINT1	07		P	7,942.0	DRILLING FROM 7942' T/8037'.
	18:00	3:30	9.50	DRLINT1	07		P	8,037.0	DRILL F/8037' - T/8310'
	3:30	4:00	0.50	DRLINT1	12		P	8,410.0	RIG SERVICE
	4:00	6:00	2.00	DRLINT1	07		P	8,410.0	DRILL F/8410' - T/8470'
12/14/2014	6:00	14:30	8.50	DRLINT1	07		P	8,470.0	DRILLING FROM 8470' TO 8870'.
	14:30	15:00	0.50	DRLINT1	12		P	8,870.0	RIG SERVICE
	15:00	18:00	3.00	DRLINT1	07		P	8,870.0	DRILLING FROM 8870' TO 8968'.
	18:00	0:00	6.00	DRLINT1	07		P	8,968.0	DRILL F/8968' - T/9210'.
	0:00	1:00	1.00	DRLINT1	07		P	9,210.0	DRILL F/9210' - T/9247'.
	1:00	1:30	0.50	DRLINT2	12		P	9,247.0	RIG SERVICE.
	1:30	6:00	4.50	DRLINT1	07		P	9,247.0	DRILL F/ 9247' - 9402'.
12/15/2014	6:00	9:30	3.50	DRLINT1	07		P	9,435.0	DRILLING FROM 9435' TO 9559'
	9:30	10:30	1.00	DRLINT1	45		N	9,559.0	GO THROUGH MUD PUMPS
	10:30	15:30	5.00	DRLINT1	07		P	9,559.0	DRILLING FROM 9559' TO 9696'
	15:30	18:00	2.50	DRLINT1	43		N	9,696.0	TOP DRIVE INCIDENT. TOPDRIVE AND DRILLING SWIVEL PARTED WHILE DRILLING (CROSS-OVER FROM SWIVEL TO TOP DRIVE SEPERATED). ASSES DAMAGES TO TOPDRIVE AND SWIVEL. HOT SHOT NEW EQUIP TO LOCATION. CLEAN UP WORK AREA FOR RIG DOWN.
	18:00	22:00	4.00	DRLINT1	43		N	9,696.0	CONTINUE TO CLEAN WORK AREA OF DRILLING MUD AND PREP FOR RIG DOWN OF SWIVEL.
	22:00	0:00	2.00	DRLINT1	43		N	9,696.0	RIG DOWN SWIVEL, BREAK OUT TOP DRIVE X-OVER, MPI NEW SWIVEL AND CROSS-OVER.
	0:00	6:00	6.00	DRLINT1	43		N	9,696.0	PICK UP STRING, REMOVE ELEVATORS,BELLS,HYDRAULIC RAMS, WELD ON BREAK-AWAY-HOUSING TO TOP DRIVE, MAGNA FLUX SUB-ROTARY BEAMS, AND WELDS ON TOP DRIVE, INSPECT END PLAY IN TOP DRIVE.
12/16/2014	6:00	11:30	5.50	DRLINT1	43		N	9,696.0	REPAIRS TO TOP DRIVE.
	11:30	0:00	12.50	DRLINT1	13		N	9,696.0	TOOH TO LDDC'S, CHANGE OUT DIRECTIONAL TOOLS, AND BIT.
	0:00	2:00	2.00	DRLINT1	13		N	9,696.0	LAY DOWN BIT,MOTOR MWD.
	2:00	3:30	1.50	DRLINT1	13		N	9,696.0	READY FLOOR TO PICK UP P/U DIRECTIONAL TOOLS, STRAP BHA.
	3:30	6:00	2.50	DRLINT1	13		N	9,696.0	P/U BHA, SCRIBE MOTOR.
12/17/2014									

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	6:00	12:30	6.50	DRLINT1	13		N	9,696.0	PU DC'S, TIH WITH DP.(LAYING DOWN BENT DP AND PICKING UP REPLACEMENT DP) CIRC BU AT 3412'
	12:30	14:00	1.50	DRLINT1	17		N	9,696.0	SLIP AND CUT DRILLING LINE
	14:00	18:00	4.00	DRLINT1	13		N	9,696.0	TIH WITH DP.(LAYING DOWN BENT DP AND PICKING UP REPLACEMENT DP) CIRC BU AT 5054'
	18:00	19:00	1.00	DRLINT1	13		N	9,696.0	TIH F/5730'-T/6460'.(LAYING DOWN BENT DP AND PICKING UP REPLACEMENT DP)
	19:00	20:00	1.00	DRLINT1	15		N	9,696.0	CIRCULATE B/U AT 6460'.
	20:00	23:30	3.50	DRLINT1	13		N	9,696.0	TIH F/6460' - T/9660'.(LAYING DOWN BENT DP AND PICKING UP REPLACEMENT DP)
	23:30	0:00	0.50	DRLINT1	13		N	9,696.0	WASH 30' TO BOTTOM.
	0:00	4:00	4.00	DRLINT1	07		P	9,696.0	DRILL F/9696' T/9910. CIRCULATE B/U @ 9723' DUE TO GAS.
	4:00	4:30	0.50	DRLINT1	12		P	9,910.0	RIG SERVICE.
	4:30	6:00	1.50	DRLINT1	07		P	9,910.0	DRILL F/9910' - T/9984'.
12/18/2014	6:00	6:30	0.50	DRLINT1	07		P	9,984.0	DRILLING FROM 9984' TO 10,009'
	6:30	8:00	1.50	DRLINT1	15		P	10,009.0	GO THROUGH NUMBER 1 PUMP WHILE CIRCULATION AND CONDITIONING MUD BRINGING MUD WEIGHT TO 11.4 PPG.
	8:00	17:30	9.50	DRLINT1	15		P	10,009.0	CIRCULATE AND CONDITION MUD. RAISE MUD WEIGHT FROM 10.1 PPG TO 11.4 PPG.
	17:30	18:00	0.50	DRLINT1	12		P	10,009.0	RIG SERVICE
	18:00	0:00	6.00	DRLINT1	15		P	10,009.0	CIRCULATE AND CONDITION MUD. RAISE MUD WEIGHT FROM 10.1 PPG TO 11.6 PPG DUE TO GAS. LOST FULL RETURNS. PULL 5 STANDS ATTEMPT TO REGAIN CIRCULATION.
	0:00	6:00	6.00	DRLINT1	15		P	10,009.0	CIRCULATE CONDITION MUD TO 11.6 PPG ADDING 30% LCM IN SYSTEM TO REGAIN CIRCULATION. PULL 5 STANDS ATTEMPT TO REGAIN CIRCULATION.
12/19/2014	6:00	8:00	2.00	DRLINT1	15		P	10,009.0	CIRCULATE BOTTOMS UP.
	8:00	13:00	5.00	DRLINT1	16		P	10,009.0	WASH BACK TO BOTTOM FROM 9090' TO 10009'
	13:00	15:30	2.50	DRLINT1	15		P	10,009.0	CIRCULATE BOTTOMS UP.
	15:30	18:00	2.50	DRLINT1	13		P	10,009.0	TOOH F/10009' - T/7560'. FLOW CHECK @9910', 9571', 7560'. NO FLOW.
	18:00	0:00	6.00	DRLINT1	13		P	10,009.0	TOOH F/7560' T/874'. LAYING DOWN DRILL PIPE FROM 3412' (CASING SHOE) TO BHA. FLOW CHECK @ 5500', 3412',BHA. NO FLOW.
	0:00	3:00	3.00	DRLINT1	13		P	10,009.0	TOOH LAYING DOWN HWDP,DRILL COLLARS, DIRECTIONAL TOOLS.
	3:00	3:30	0.50	DRLINT1	42		P	10,009.0	PULL WEAR BUSHING CHANGE OUT ELEVATORS.PREP RIG FLOOR TO RUN CASING.
	3:30	4:30	1.00	CASINT1	24		P	10,009.0	SAFETY MEETING WITH RIG CREW. RIG UP CASING CREW.
	4:30	6:00	1.50	CASINT1	24		P	10,009.0	M/U 7" SHOE AND FLOAT, TEST FLOAT.
12/20/2014	6:00	6:30	0.50	CASINT1	24		P	10,009.0	RU CASING CREW, PJSM.
	6:30	22:30	16.00	CASINT1	24		P	10,009.0	RAN A TOTAL OF 242 JTS 2 PUPS (10,005') OF 7" 29# HCP-110 LTC INTERMEDIATE CASING - MKR PUP: 9,003' FC: 9,958' FS: 10,002' - FILLED PIPE EVERY 1000', CIRCULATING B/U EVERY 2000'.
	22:30	23:00	0.50	CASINT1	24		P	10,009.0	RIG DOWN CASING CREW.
	23:00	0:00	1.00	CASINT1	25		P	10,009.0	CIRCULATE HOLE WHILE PREPARING FOR CEMENTERS.
	0:00	1:30	1.50	CASINT1	25		P	10,009.0	SAFETY MEETING WITH CEMENTERS AND RIG CREW.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	1:30	4:30	3.00	CASINT1	25		P	10,009.0	PUMP 40 BBL TUNED SPACER (12.0 PPG 3.04 YIELD 17.8 BBLS/SK WATER), 585 SXS (199 BBLS. 12 PPG 1.91 FT 3/SK YIELD) LEAD. 265 SK'S (77 BBLS. 13.0 PPG 1.64 FT 3/SK YIELD) TAIL. DISPLACED W/ 371 BBLS 11.4 PPG CARBONOX MUD. BUMPED PLUG @ 4:00 AM 12/20/2014 WITH 76O PSI FINAL LIFT PRESSURE HELD 500 PSI OVER. 2 BBLS ON FLOW BACK TO TRUCK. CHECK FLOATS, FLOATS HELD. PARTIAL RETURNS (75%) DURING SPACER AND LEAD. LOST RETURNS AT BEGINNING OF TAIL. REGAINED RETURNS 40-50% DURING DISPLACEMENT. 5 FT FLARE AT THE BEGINNING OF SPACER AND LEAD.
	4:30	5:00	0.50	CASINT1	25		P	10,009.0	RIG DOWN CEMENTERS. PREPARE TO TEST BOP.
	5:00	5:30	0.50	CASINT1	27		P	10,009.0	BACK OUT OF LANDING JOINT, SET B SECTION DOGS VIA WEATHERFORD HAND.
	5:30	6:00	0.50	CASINT1	12		P	10,009.0	RIG SERVICE.
12/21/2014	6:00	7:00	1.00	CASINT1	19		P	10,009.0	INSTALL PACKOFF AND TEST TO 5000 PSI / 10 MINUTES. OK.
	7:00	9:00	2.00	CASINT1	42		P	10,009.0	CHANGE RAMS IN BOP. INSTALL VARIABLE RAMS
	9:00	13:00	4.00	CASINT1	19		P	10,009.0	INSTALL TEST PLUG IN WELLHEAD. PRESSURE TEST BOP RAMS, BOTH INSIDE AND OUTSIDE CHOKE AND KILL LINE VALVES, MANIFOLD, ALL LINES, VALVES ON TOP DRIVE, STABBING VALVE AND INSIDE BOP TO 250 LOW AND 10,000 HIGH FOR 10 MINUTES EACH. PRESSURE TEST ANNULAR TO 250 LOW AND 4000 HIGH FOR 10 MINUTES. ALL TESTS WERE CHARTED.
	13:00	13:30	0.50	CASINT1	31		P	10,009.0	PRESSURE TEST CASING TO 2500 PSI FOR 30 MINUTES. OK.
	13:30	14:30	1.00	CASINT1	42		P	10,009.0	CHANGE ELEVATORS AND BAILS, PREPARE TO LDDP IN MOUSE HOLE.
	14:30	21:30	7.00	CASINT1	14		P	10,009.0	LDDP IN MOUSE HOLE
	21:30	22:00	0.50	CASINT1	12		P	10,009.0	RIG SERVICE.
	22:00	0:00	2.00	CASINT1	14		P	10,008.0	LAY DOWN 4 1/2" DP.
	0:00	1:00	1.00	CASINT1	14		P	10,008.0	CHANGE OUT FOR 4.5" HANDLING TOOLS.
	1:00	4:00	3.00	CASINT1	14		P	10,008.0	PICK UP BHA ASSEMBLY FOR PRODUCTION INTERVAL.
	4:00	6:00	2.00	CASINT1	14		P	10,008.0	PICK UP 4" XT-39 DRILL PIPE.
12/22/2014	6:00	9:30	3.50	CASINT1	14		P	10,009.0	PICK UP 4" DP.
	9:30	12:30	3.00	CASINT1	71	TIIT	N	10,009.0	TOOH DUE TO PLUGGED BIT @ 3591'. TRIP TO UNPLUG BIT.
	12:30	13:00	0.50	CASINT1	13		P	10,009.0	LAY DOWN BHA
	13:00	13:30	0.50	CASINT1	12		P	10,009.0	RIG SERVICE
	13:30	15:00	1.50	CASINT1	13		P	10,009.0	TRIP IN THE HOLE.
	15:00	17:30	2.50	CASINT1	13		P	10,009.0	INSTALL ROT HEAD. TIH.
	17:30	1:30	8.00	CASINT1	14		P	10,009.0	P/U 4" XT-39 DRILL PIPE F/359'- 4000'
	1:30	2:00	0.50	CASINT1	12		P	10,009.0	RIG SERVICE.
	2:00	3:30	1.50	CASINT1	17		P	10,009.0	SLIP/CUT DRILL LINE.
	3:30	5:00	1.50	CASINT1	72		P	10,009.0	DRILL OUT FLOAT AND SHOE.
12/23/2014	6:00	9:30	3.50	CASINT1	56		N	10,009.0	WORKING STUCK PIPE, BIT DEPTH 9992'
	9:30	11:30	2.00	CASINT1	53		N	10,009.0	RESET TOP DRIVE TORQUE, CHANGE GRABBER DIES. PERFORM MANUAL BACKOFF ON DRILL STRING. WEIGHT INDICATOR READING OF RECOVERED PIPE, 192,000#.
	11:30	17:30	6.00	CASINT1	13		N	10,009.0	TOOH CHECKING TORQUE ON EACH DP CONNECTION.
	17:30	18:00	0.50	CASINT1	12		N	10,009.0	RIG SERVICE.
	18:00	20:30	2.50	CASINT1	13		N	10,009.0	PULL ROTATING HEAD.TOOH CHECKING TORQUE ON EACH CONNECTION F/2000' - T/SURFACE. NEAR BIT STABILIZER AND BIT LEFT IN HOLE.
	20:30	22:30	2.00	CASINT1	13		N	10,009.0	PICK UP FISHING TOOLS AND COLLARS.
	22:30	4:30	6.00	CASINT1	13		N	10,009.0	TIH WITH FISHING ASSEMBLY.
	4:30	5:00	0.50	CASINT1	53		N	10,009.0	SCREW INTO FISH AND JAR FREE. (260K)

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	5:00	6:00	1.00	CASINT1	13		N	10,009.0	TOH WITH FISH.
12/24/2014	6:00	12:30	6.50	CASINT1	13		N	10,009.0	TOH WITH FISH. RETREIVED NEAR BIT REAMER AND BIT.
	12:30	13:00	0.50	CASINT1	12		N	10,009.0	RIG SERVICE
	13:00	15:00	2.00	CASINT1	42		N	10,009.0	WAIT ON TOOLS.
	15:00	18:00	3.00	CASINT1	13		N	10,009.0	MAKE UP MAGNET, TIH.
	18:00	21:00	3.00	CASINT1	53		N	10,009.0	TIH WITH MAGNET. TAG BOTTOM WITH MAGNET.
	21:00	3:00	6.00	CASINT1	53		N	10,009.0	TOOH WITH MAGNET. NO RECOVERY.
	3:00	6:00	3.00	CASINT1	13		P	10,009.0	PUMU 6-1/8" TRICONE INSERT BIT, TIH.
12/25/2014	6:00	14:30	8.50	CASINT1	13		P	10,009.0	TRIP IN HOLE W/ 6-1/8" TRI-CONE BIT - FILLED 4" DP EVERY 2,500' - TIH TO 9,990'.
	14:30	15:00	0.50	CASINT1	31		P	10,009.0	PERFORMED CASING TEST FOR FIT PARAMETERS.
	15:00	15:30	0.50	CASINT1	15		P	10,009.0	CIRCULATE BOTTOMS UP AT 320 GPM. WORKED ON PUMPS, FLUSHED OUT SUCTIONS. PUMP SUCTION STILL PARTIALLY PLUGGED.
	15:30	1:00	9.50	CASINT1	59		N	10,009.0	WORKED ON PUMPS, FLUSHED OUT SUCTIONS. PUMP SUCTION STILL PARTIALLY PLUGGED.TRANSFERED MUD FROM ACTIVE TO UPRIGHT. CLEANED PIT AND CUT 6" SUCTION AND CLEANED OUT DEBRIS, FOUND STOPS FOR MAIN SUCTION VALVE WORN. WELDER REPAIRED SAME. FILLED PITS.
	1:00	2:00	1.00	CASINT1	32		P	10,009.0	C& CM, PUMPS OK. DRILLED OUT SHOE, FORMATION TO 10,014'. 100% FORMATION, PER MUD LOGGER.
	2:00	2:30	0.50	CASINT1	33		P	10,014.0	PERFORMED FIT TO 15.4 PPG, GOOD TEST.
	2:30	5:00	2.50	DRLPRD	07		P	10,014.0	DRILLED, 10,014' - 10,019'.
	5:00	6:00	1.00	DRLPRD	13		P	10,019.0	FLOW CHK, NO FLOW - PUMP SLUG, TOOH.
12/26/2014	6:00	12:30	6.50	DRLPRD	13		P	10,019.0	TOOH FOR 6" PACKED HOLE BHA, AND 6 1/8" PDC BIT.
	12:30	17:00	4.50	DRLPRD	13		P	10,019.0	M/U 6 1/8" PDC BIT AND 6" PACKED HOLE ASSEMBLY - TIH FILL DRILL PIPE EVERY 2,500' TO 5,000'.
	17:00	17:30	0.50	DRLPRD	12		P	10,019.0	RIG SERVICE.
	17:30	20:00	2.50	DRLPRD	13		P	10,019.0	TIH TO 9,931' - FILLED DRILL PIPE EVERY 2,500'.
	20:00	21:30	1.50	DRLPRD	17		P	10,019.0	SLIPPED & CUT DL.
	21:30	22:00	0.50	DRLPRD	12		P	10,019.0	REPLACED HYDRAULIC HOSE ON TDU. & SERVICED RIG.
	22:00	6:00	8.00	DRLPRD	07		P	10,019.0	DRILLED, 10,019' - 10,120'.
12/27/2014	6:00	13:00	7.00	DRLPRD	07		P	10,200.0	DRILL 10,200' - 10,300'.
	13:00	13:30	0.50	DRLPRD	12		P	10,300.0	RIG SERVICE.
	13:30	0:00	10.50	DRLPRD	07		P	10,300.0	DRILL 10,300' - 10,534'.
	0:00	1:30	1.50	DRLPRD	11		P	10,534.0	RAN SL SURVEY @ 10,500', 1.27 DEGREES.
	1:30	4:00	2.50	DRLPRD	07		P	10,534.0	DRILLED, 10,534' - 10,596'.
	4:00	4:30	0.50	DRLPRD	12		P	10,596.0	SERVICED RIG AND TDU.
	4:30	6:00	1.50	DRLPRD	07		P	10,596.0	DRILLED, 10,596' - 10,620'.
12/28/2014	6:00	16:30	10.50	DRLPRD	07		P	10,620.0	DRILL 10,620' - 10,877'.
	16:30	17:00	0.50	DRLPRD	12		P	10,877.0	RIG SERVICE.
	17:00	5:30	12.50	DRLPRD	07		P	10,877.0	DRILLED, 10,877' - 11,165'.
	5:30	6:00	0.50	DRLPRD	12		P	11,165.0	SERVICED RIG & TDU.
12/29/2014	6:00	15:30	9.50	DRLPRD	07		P	11,165.0	DRILL 11,165' - 11,343'.
	15:30	16:00	0.50	DRLPRD	12		P	11,343.0	RIG SERVICE.
	16:00	5:00	13.00	DRLPRD	07		P	11,343.0	DRILL 11,343' - 11,634'.
	5:00	5:30	0.50	DRLPRD	12		P	11,634.0	SERVICED RIG & TDU.
	5:30	6:00	0.50	DRLPRD	07		P	11,634.0	DRILLED, 11,634' - 11,650'.
12/30/2014	6:00	14:30	8.50	DRLPRD	07		P	11,650.0	DRILL 11,650' - 11,824'.
	14:30	15:00	0.50	DRLPRD	12		P	11,824.0	RIG SERVICE.
	15:00	18:30	3.50	DRLPRD	07		P	11,824.0	DRILL 11,824' - 11,919'. LOST ALL RETURNS 11,919'.
	18:30	20:00	1.50	DRLPRD	52		P	11,919.0	MIXED 35% LCM. 100% BYPASSED SHAKERS. SLOWED PUMP TO 212 GPM.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	20:00	0:30	4.50	DRLPRD	07		P	11,919.0	CONTINUED DRILLING WITH PARTIAL RETURNS. MUD WT. 12 PPG. DRILLED 11,919' - 11,977'.
	0:30	1:00	0.50	DRLPRD	42		P	11,977.0	FLOW CHECKED FOR 15 MINUTES, FLOWED BACK 3 BBLS. AND STOPPED.
	1:00	5:00	4.00	DRLPRD	07		P	11,977.0	DRILLED, 11,977' - 12,106'. MAX GAS FROM FLOW CHECK- 1,462 UNITS. PUMP RATE 262 GPM. LCM 20LB PER BBL, LOSSES 0 BBLS / HR. 100% BYPASSED.
	5:00	5:30	0.50	DRLPRD	12		P	12,106.0	RIG SERVICE - SPR.
	5:30	6:00	0.50	DRLPRD	07		P	12,106.0	DRILLED, 12,106' - 12,160'.
12/31/2014	6:00	17:00	11.00	DRLPRD	07		P	12,135.0	DRILL 12,135' - 12,430' - RAISED MUD WT F. 12.0 PPG TO 12.2 PPG WHILE DRILLING AHEAD.
	17:00	18:00	1.00	DRLPRD	15		P	12,430.0	SIMULATE CONNECTION - CIRCULATE BTMS UP, CONTINUING TO RAISE MUD WT TO A 12.4 PPG - BTMS UP GAS WAS 3,446 UNITS THRU GAS BUSTER, NO FLARE! GAS CUT WAS 0.4 PPG.
	18:00	19:30	1.50	DRLPRD	15		P	12,430.0	CONTINUED TO RAISE MUD WT F. 12.2 PPG TO 12.4 PPG 20% LCM.
	19:30	2:00	6.50	DRLPRD	13		P	12,430.0	FLOW CHECK, NO FLOW! - PRECAUTIONARY BACK REAM UP INTO 7" CSG SHOE AT 10,002'.
	2:00	2:30	0.50	DRLPRD	12		P	12,430.0	SERVICED RIG & TDU.
	2:30	5:00	2.50	DRLPRD	15		P	12,430.0	C & CM-SHAKE OUT A PORTION OF LCM WHILE INCREASING MUD WT F. 12.4 TO 12.6 PPG.
	5:00	6:00	1.00	DRLPRD	13		P	12,430.0	TOOH TO C/O 4 3/4" DC'S AND BIT.
1/1/2015	6:00	13:30	7.50	DRLPRD	13		P	12,430.0	TOOH FOR FRESH 4 3/4" DRILL COLLARS, AND NEW BIT - FLOW CHECKED AT 9,934' - 6,625' - 3,360' - 812' - NO FLOW!.
	13:30	17:00	3.50	DRLPRD	14		P	12,430.0	CATWALK HYDRAULICS GELLED UP - LAY DOWN DRILL COLLARS DOWN WITH OUT HYDRAULICS. NOTE: TEMPERATURE AT 06:00 HRS MINUS 15 DEGREES, HIGH 5 DEGREES.
	17:00	17:30	0.50	DRLPRD	12		P	12,430.0	RIG SERVICE.
	17:30	19:30	2.00	DRLPRD	14		P	12,430.0	M/U NEW 6 1/8" PDC BIT# 7, PICKED BACK UP (18) FRESH 4 3/4" DC's 6" PACKED HOLE ASSEMBLY. NOTE: HOLE TOOK 4 BBLS MORE THAN EST'D.
	19:30	3:00	7.50	DRLPRD	13		P	12,430.0	SIH, C &CM @ 1978', 4,057', 6,044',CUTTING MW TO 12.4 PPG.
	3:00	3:30	0.50	DRLPRD	12		P	12,430.0	SERVICED RIG WHILE CIRCULATING @ 6,044'.
	3:30	6:00	2.50	DRLPRD	13		P	12,430.0	SIH, C &CM @ 8,056'.
1/2/2015	6:00	9:00	3.00	DRLPRD	13		P	12,430.0	SIH, C &CM @ 10, 002'.
	9:00	13:30	4.50	DRLPRD	16		P	12,430.0	SIH TO 11,947', REAMED TIGHT HOLE TO 12,023'. (NOTE: MAX GAS 8,324 UNITS, LOST 127 BBLS MUD). WORKED THROUGH TIGHT HOLE, REAMED TO 12,023'.
	13:30	14:30	1.00	DRLPRD	14		P	12,430.0	C & CM, BUILD VOLUME.
	14:30	17:30	3.00	DRLPRD	15		P	12,430.0	REAMED F/ 12,023' TO 12,249'.
	17:30	18:00	0.50	DRLPRD	71		N	12,430.0	FOUND SWELLED BOX, MIDDLE OF STAND. LAID DOWN 2 SINGLES, REPLACED SAME.
	18:00	18:30	0.50	DRLPRD	12		P	12,430.0	SERVICED RIG & TDU.
	18:30	19:30	1.00	DRLPRD	16		P	12,430.0	REAMED F/ 12,249' TO 12,430'. MW 12.4 PPG. GAS 2,847 UNITS WITH GAS CUT .2 PPG. ON MGS W/ 4' FLAME FOR 10 MIN.
	19:30	0:30	5.00	DRLPRD	07		P	12,430.0	DRILLED, 12,430' - 12,591'. MAX GAS 8486 UNITS. MUD CUT-.7PPG
	0:30	1:00	0.50	DRLPRD	12		P	12,591.0	SERVICED RIG & TDU.
	1:00	6:00	5.00	DRLPRD	07		P	12,591.0	DRILLED, 12,591' - 12,710'.
1/3/2015	6:00	13:00	7.00	DRLPRD	07		P	12,710.0	DRILL 12,710' - 12,874'.
	13:00	13:30	0.50	DRLPRD	12		P	12,874.0	RIG SERVICE.
	13:30	0:00	10.50	DRLPRD	07		P	12,874.0	DRILL 12,874' - 13,156'. SHOOK OUT OLD LCM & RENEWED LCM TO 10 %. DRILLING BREAK - 13,098' - 13,156'. MW 13.2 PPG. GAS 5,430 UNITS, ON MGS HAD 0.4 PPG MUD CUT.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	0:00	0:30	0.50	DRLPRD	12		P	13,156.0	SERVICED RIG & TDU, CIRCULATING GAS. 4' FLARE FOR 10 MINUTES.
	0:30	6:00	5.50	DRLPRD	07		P	13,156.0	DRILLED, 13,156' - 13,290'. MW 13.4 PPG. 1' / 5' LAZY FLARE.
1/4/2015	6:00	15:30	9.50	DRLPRD	07		P	13,290.0	DRILLED 13,290' - 13,446'.
	15:30	16:00	0.50	DRLPRD	12		P	13,446.0	SERVICED RIG & TDU.
	16:00	4:00	12.00	DRLPRD	07		P	13,446.0	DRILLED, 13,446' - 13,637'.
	4:00	4:30	0.50	DRLPRD	12		P	13,637.0	SERVICED RIG & TDU.
	4:30	6:00	1.50	DRLPRD	07		P	13,637.0	DRILLED, 13,637' - 13,660'.
1/5/2015	6:00	12:00	6.00	DRLPRD	07		P	13,660.0	DRILLED 13,660' - 13,728'.
	12:00	12:30	0.50	DRLPRD	12		P	13,728.0	SERVICED RIG & TDU.
	12:30	23:30	11.00	DRLPRD	07		P	13,728.0	DRILLED, 13,728' - 13,920'. UNABLE TO MAKE ANY FOOTAGE AFTER CONNECTION. TD 13,920'.
	23:30	1:00	1.50	DRLPRD	15		P	13,920.0	CIRCULATED UP CONNECTION GAS MAX- 4,377 UNITS W/ .3 PPG CUT. ON MGS, NO FLARE. MW = 14.0 PPG.
	1:00	2:30	1.50	DRLPRD	16		P	13,920.0	WT TO SHOE, BACKREAMED TO 13,510', FLOW CHECK, NO FLOW. PUMP SLUG, BLOW DOWN TDU.
	2:30	5:30	3.00	DRLPRD	13		P	13,920.0	WT TO SHOE, TOOH ON ELEVATORS, NO EXCESSIVE DRAG. PULLING SLOWLY DUE TO HOLE BALLOONING. FLOW CHECKED @ 11,459'. NO FLOW. (STARTED TAKING PROPER DISPLACEMENT @ 11,610'). PULLED INTO SHOE @ 10,002' - NO FLOW!.
	5:30	6:00	0.50	DRLPRD	13		P	13,920.0	TIH.
1/6/2015	6:00	8:30	2.50	DRLPRD	13		P	13,920.0	TIH TO 13,826' - PRECAUTIONARY REAMED TO 13,920'.
	8:30	9:00	0.50	DRLPRD	12		P	13,920.0	SERVICED RIG & TDU.
	9:00	13:00	4.00	DRLPRD	15		P	13,920.0	CIRCULATE BTMS UP, HAD 1597 UNITS OF GAS, NO FLARE - START RAISING MUD WT. UP F. 14.0 PPG TO 14.3 PPG. - HAD 14.3 PPG MUD BACK - FLOW CHECK, HAD 4 BBLS / HR RATE AFTER 20 MINUTES,
	13:00	15:30	2.50	DRLPRD	15		P	13,920.0	CIRCULATE OUT 15% LCM - CIRCULATE BTMS UP HAD 422 UNITS OF GAS, GAS CUT F. 14.3 PPG TO 13.8 PPG (0.6 PPG) NO FLARE!.
	15:30	21:00	5.50	DRLPRD	13		P	13,920.0	TOOH FOR LOG'S - HAD 25 / 35 K OP F. 13,920' / 13,216' - WORKED TIGHT HOLE AT 13,216' - BACK REAMED OUT F. 13,216' / 12,644' HOLE HAD 20 / 25 K OP WHILE BACK REAMING TO 12,644' - STRAIGHT PULL F. 12,644' / (HOLE TOOK PROPER DISPLACEMENT AFTER 9 STANDS) BACK UP INTO 7" CSG SHOE AT 10,002' - FLOW CHECKED WELL - FC @ 9975', 4,960', 864' NO FLOW. PUMPED SLUG, DROPPED RABBET.
	21:00	4:00	7.00	DRLPRD	13		P	13,920.0	TOOH FOR LOGS. NOTE: BIT LEFT IN HOLE, PIN TWISTED OFF- LEFT IN NEAR BIT STABILIZER. CLEARED FLOOR, LAID DOWN IBS AND PONY COLLAR.
	4:00	4:30	0.50	DRLPRD	12		P	13,920.0	SERVICED RIG & TDU.
	4:30	5:30	1.00	EVLPRD	22		P	13,920.0	PJSM. RIG UP HALLIBURTON LOGGERS.
	5:30	6:00	0.50	EVLPRD	22		P	13,920.0	RUN ULTRA SLIM QUAD COMBO WIRELINE LOGS.
1/7/2015	6:00	13:00	7.00	EVLPRD	22		P	13,920.0	RIH W/ HOWCO SLIM QUAD COMBO - TAGGED AT 13, 896' WLM - LOG OUT AND THRU 7" INTERMEDIATE CASING - R/D HOWCO.
	13:00	22:00	9.00	CASPRD1	24		P	13,920.0	PJSM WITH FRANK'S WESTATES, RU CASING CREW & TORQUE TURN. M/U FLOAT SHOE, 1 JOINT 5" 18# HCP-110 STL CASING , FLOAT COLLAR, 1 JOINT 5" 18# HCP-110 STL LANDING COLLAR. CHECK FLOAT, OK. RUN 99 FULL JTS & 3 MARKER JOINTS OF 5" 18# HCP - 110 STL LINER WITH VERSAFLEX LINER HANGER. THREAD LOCK ALL STL CONNECTIONS OF THE SHOE TRACK. CIRCULATE BOTTOMS UP EVERY 2000' AT 2.5 BBLS / MIN. - LOWER MUD WT. FROM 14.3 PPG TO 14.0 PPG. - PUMPED LINER VOLUME 73 BBLS, WHILE RIGGING DOWN FRANK'S CASING TOOLS.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	22:00	6:00	8.00	CASPRD1	13		P	13,920.0	TIH WITH 5" LINER, FILLED EVERY 10 JTS., CIRCULATED BOTTOMS UP EVERY 20 JOINTS. FULL RETURNS.
1/8/2015	6:00	14:00	8.00	CASPRD1	24		P	13,920.0	TIH WITH LINER. FILL DP EVERY 10 STANDS,CIRCULATE BU EVERY 10 STANDS. WASH FROM 11,793' TO 12,071. WASH TO BOTTOM. PU CEMENT HEAD.
	14:00	18:00	4.00	CASPRD1	15		P	13,920.0	CIRCULATE BU X 2.
	18:00	1:30	7.50	CASPRD1	25		P	13,920.0	PJSM WITH HALLIBURTON. PRESSURE TEST LINES TO 9000 PSI. PUMPED 20 BBL TUNED SPACER (14.0 PPG 6.16 YIELD 41.4 GAL/SK WATER) 126 BBLS. (500 SKS 14.6 PPG. 1.42 YIELD 5.84 GAL/SK WATER) LEAD CEMENT. SHUT DOWN , WASH PUMPS, DROP PLUG. DISPLACED WITH 80 BBLS. CLA-WEB / ALDACIDE WATER AND 91 BBLS. OF 14.0 PPG. PRESSURE PRIOR TO BUMPING PLUG 2750. PRESSURED TO 3450 DROPPED BALL. PRESSURED TO 5500 PSI AND RUPTURED DISC. CIRCULATED BALL TO SEAT, PRESSURED TO 6600 AND SET LINER HANGER. PULL TESTED 50K OVER (250,000) OK. SLACKED OFF TO 95K AND SHEARED OFF OF LINER. RECIPROCATED DP WHILE CIRCULATING BU 1-1/2 TIMES. 25 BBLS OF CEMENT TO SURFACE. PRESSURE TESTED LINER TOP 1000 PSI / 10 MINUTES OK. DISPLACED HOLE WITH CLA-WEB / ALDACIDE WATER. FULL RETURNS THROUGHOUT CEMENT JOB.
	1:30	2:30	1.00	CASPRD1	25		P	13,920.0	RIG DOWN CEMENT CREW.
	2:30	3:00	0.50	CASPRD1	14		P	13,920.0	LAY DOWN 5 STANDS 4" DRILL PIPE
	3:00	4:30	1.50	CASPRD1	17		P	13,920.0	SLIP/CUT 12 WRAPS OF DRILL LINE.
	4:30	6:00	1.50	CASPRD1	14		P	13,920.0	LAY DOWN 4" DRILL PIPE.
1/9/2015	6:00	14:00	8.00	CASPRD1	14		P	13,920.0	LAY DOWN 4" DRILL PIPE
	14:00	21:30	7.50	CASPRD1	13		P	13,920.0	TIH WITH PIPE IN DERRICK AND LAY DOWN
	21:30	6:00	8.50	CASPRD1	29		P	13,920.0	CHANGE OUT VARIABLE RAMS IN BOP. NIPPLE DOWN BOP.
1/10/2015	6:00	7:30	1.50	CASPRD1	29		P	13,920.0	ND 10K BOPE
	7:30	11:00	3.50	CASPRD1	27		P	13,920.0	NU TUBING SPOOL AND FRAC VALVE. P. TEST 5000 PSI F/ 15 MINUTES. OK. RIG RELEADED AT 11:00 1/9/2015.
	11:00	20:00	9.00	RDMO	02		P	13,920.0	RIG DOWN
	20:00	6:00	10.00	RDMO	67		P	13,920.0	WAITING ON DAY LIGHT.
1/11/2015	6:00	6:00	24.00	RDMO	02		P	13,920.0	RIG DOWN, MOVE OUT. UNSTRING BLOCKS. 50% MOVED OFF OF LOCATION.
1/12/2015	6:00	6:00	24.00	RDMO	02		P	13,920.0	RIG DOWN, MOVE RIG TO WESTROC YARD. TRUCKS SHUT DOWN BY UTAH HIWAY PATROL, WEATHER CONDITIONS @ 11:00. ABLE TO START MOVING AGAIN AT 13:00. 95% MOVED.

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CENTRAL DIVISION

ALTAMONT FIELD
HAMAKER 3-25A1
HAMAKER 3-25A1
COMPLETION LAND

Operation Summary Report

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1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	HAMAKER 3-25A1		
Project	ALTAMONT FIELD	**Site**	HAMAKER 3-25A1
Rig Name/No.		**Event**	COMPLETION LAND
Start date	1/21/2015	**End date**	
Spud Date/Time	12/1/2014	**UWI**	HAMAKER 3-25A1
Active datum	KB @5,475.6ft (above Mean Sea Level)		
Afe No./Description	147644/52496 / HAMAKER 3-25A1		

2 Summary

2.1 Operation Summary

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
1/21/2015	6:00	7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON NUBOP & HAND PLACEMENT, WRITE & REVIEW JSA'S
	7:30	9:30	2.00	MIRU	01		P		ROAD RIG TO LOCATION SPOT IN & RIG UP, X OVER TO TBG EQUIP
	9:30	11:30	2.00	WOR	16		P		ND 10K NIGHT CAP OFF OF 7" 10K FRAC VALVE, NU 10K X 5K SPOOL & 5K BOP, RU WORK FLOOR & TBG TONGS
	11:30	15:30	4.00	WOR	18		P		MOVE IN SET UP CAT WALK, PIPE RACKS & UNLOAD TBG, PREP & TALLY TBG
	15:30	18:00	2.50	WOR	24		P		MU & RIH W/ 4-1/8" ROCK BIT, 2-3/8" EUE X 2-3/8" REG BIT SUB, PU 130 JTS 2-3/8" WORK STRING & 13 JTS 2-7/8" EUE L-80 NEW TBG, SHUT & LOCK PIPE RAMS, INSTALL TIW VALVE & NIGHT CAP IN TBG & CLOSE, CLOSE BOTH CSG VALVES & NIGHT CAP, SDFN
1/22/2015	6:00	7:30	1.50	WOR	26		P		CREW TRAVEL HOLD SAFETY MTG ON P.U. TBG & OVER HEAD LOADS, WRITE & REVIEW JSA'S
	7:30	11:30	4.00	WOR	24		P		0 PSI ON WELL CONT TALLYING & P.U 258 JTS 2-7/8" EUE L-80 TBG, TAG @ 13750'
	11:30	12:30	1.00	WOR	18		P		RU POWER SWIVEL, PUMP & PUMP LINES
	12:30	16:00	3.50	WOR	10		P		BRK CIRCULATION, CLEAN OUT FROM 13750' TO LANDING COLLAR @ 13832', CIRC WELL BORE CLEAN W/ 460 BBLS 2% KCL
	16:00	18:00	2.00	WOR	24		P		RD POWER SWIVEL, POOH LAYING DWN 116 JTS 2-7/8" EUE L-80 TBG, INSTALL TIW & NIGHT CAP CLOSE BOTH VALVES, SHUT PIPE RAMS & LOCK, CLOSE BOTH CSG VALVES & INSTALL NIGHT CAPS & CLOSE THEM, CREW SHUT DWN FOR NIGHT
1/23/2015	6:00	7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON LAYING DOWN TBG (PINCH POINTS). FILLED OUT JSA.
	7:30	12:00	4.50	WOR	24		P		LD 204-JTS 2 7/8 L-80 EUE TBG, X-OVER 130-JTS 2 3/8 N-80 EUE TBG, BIT SUB AND 4 1/8" BIT.
	12:00	14:00	2.00	RDMO	02		P		RD RIG AND GOT READY TO MOVE TO THE 3-5B2.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	14:00	18:30	4.50	WLWORK	22		P		RU WIRELINE. RAN CBL FROM 13806' TO 3200' WHILE HOLDING 4000 PSI @ SURF. RD WIRELINE. SHUT IN WELL 7" FRAC VALVE CLOSED W/ NIGHT CAP. CSG VALVE CLOSED W/ NIGHT CAPS. SDFN.
1/29/2015	6:00	8:00	2.00	STG01	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON WORKING AROUND PRESSURE. FILL OUT & REVIEW JSA
	8:00	14:00	6.00	STG01	16		P		NU FRAC STACK & RUN FLOW BACK LINES. PRESSURE TEST FLOW BACK LINES TO 10,000 PSI FOR 10 MINUTES. TEST CSG TO 9,000 PSI FOR 30 MINUTES. SHELL TEST FRAC STACK
	14:00	6:00	16.00	STG01	18		P		FILL FRAC TANKS & HEAT FRAC WTR
1/30/2015	6:00	7:30	1.50	STG01	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON WIRELINE SAFETY. FILL OUT & REVIEW JSA
	7:30	9:30	2.00	STG01	21		P		PERFORATE STAGE 1 PERFORATIONS 13449' TO 13757' USING 2-3/4" PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. BEGINNING PRESSURE 1000 PSI. ENDING PRESSURE 1000 PSI.
	9:30	15:00	5.50	STG01	16		P		RU FRAC EQUIPMENT
	15:00	17:00	2.00	STG01	35		P		PRESSURE TEST LINES TO 9420 PSI. OPEN WELL. SICP 257 PSI. BREAK DOWN STAGE 1 PERFORATIONS @ 7672 PSI, PUMPING 6 BPM. BRING RATE UP. PUMP 156 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN. ISIP 6663 PSI. FG .94. 5 MIN 6677 PSI. 10 MIN 6670 PSI. . TREAT STAGE 1 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,300 LBS POWER PROP 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 6827 PSI. FG .94. AVG RATE 71.7 BPM. MAX RATE 77 BPM. AVG PSI 7600 PSI. MAX PSI 7864 PSI. TURN WELL OVER TO WIRE LINE. 3980 BBLS FLUID TO RECOVER.
	17:00	20:00	3.00	STG02	21		P		SET CBP @ 13436'. PERFORATE STAGE 2 PERFORATIONS 13201' TO 13421' USING 2-3/4" PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. BEGINNING PRESSURE 6600 PSI. ENDING PRESSURE 6600 PSI. SHUT WELL IN USING 3 VALVE 10K FRAC STACK WITH CSG VALVES CLOSED W/ NIGHT CAPS INSTALLED. SURFACE CSG WAS LEFT OPEN TO FLOW BACK TANK
1/31/2015	6:00	7:30	1.50	STG02	35		P		PRESSURE TEST LINES TO 9377 PSI. OPEN WELL. SICP 6355 PSI. BREAK DOWN STAGE 2 PERFORATIONS @ 7335 PSI, PUMPING 11.6 BPM. BRING RATE UP TO 39 BPM. PUMP 88 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN. ISIP 6630 PSI. FG .94. 5 MIN 6484 PSI. 10 MIN 6455 PSI. . TREAT STAGE 1 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,300 LBS POWER PROP 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 6741 PSI. FG .94. AVG RATE 75.6 BPM. MAX RATE 78 BPM. AVG PSI 7855 PSI. MAX PSI 8279 PSI. TURN WELL OVER TO WIRE LINE. 3789 BBLS FLUID TO RECOVER.
	7:30	10:00	2.50	STG03	21		P		SET CBP @ 13186'. PERFORATE STAGE 3 PERFORATIONS 12901' TO 13171' USING 2-3/4" PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. BEGINNING PRESSURE 6600 PSI. ENDING PRESSURE 6300 PSI. TURN WELL OVER TO FRAC CREW

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	10:00	11:30	1.50	STG03	35		P		PRESSURE TEST LINES TO 9531 PSI. OPEN WELL. SICP 6527 PSI. BREAK DOWN STAGE 3 PERFORATIONS @ 7904 PSI, PUMPING 8 BPM. BRING RATE UP TO 13 BPM. PUMP 140 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN. ISIP 6316 PSI. FG .91. 5 MIN 6298 PSI. 10 MIN 6355 PSI. . TREAT STAGE 3 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,200 LBS POWER PROP 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 6162 PSI. FG .90. AVG RATE 73.5 BPM. MAX RATE 78.2 BPM. AVG PSI 7485 PSI. MAX PSI 8436 PSI. TURN WELL OVER TO WIRE LINE. 3795 BBLS FLUID TO RECOVER.
	11:30	14:00	2.50	STG04	21		P		SET CBP @ 12878'. PERFORATE STAGE 4 PERFORATIONS 12598' TO 12863' USING 2-3/4" PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. BEGINNING PRESSURE 5700 PSI. ENDING PRESSURE 5100 PSI. TURN WELL OVER TO FRAC CREW
	14:00	15:30	1.50	STG04	35		P		PRESSURE TEST LINES TO 9563 PSI. OPEN WELL. SICP 5103 PSI. BREAK DOWN STAGE 4 PERFORATIONS @ 5497 PSI, PUMPING 8 BPM. BRING RATE UP TO 31 BPM. PUMP 65 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN. ISIP 5175 PSI. FG .84. 5 MIN 5175 PSI. 10 MIN 5114 PSI. . TREAT STAGE 4 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,100 LBS POWER PROP 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 5507 PSI. FG .86. AVG RATE 75.4 BPM. MAX RATE 79 BPM. AVG PSI 6518 PSI. MAX PSI 8329 PSI. TURN WELL OVER TO WIRE LINE. 3715 BBLS FLUID TO RECOVER.
	15:30	17:30	2.00	STG05	21		P		SET CBP @ 12572'. PERFORATE STAGE 5 PERFORATIONS 12318' TO 12557' USING 2-3/4" PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. BEGINNING PRESSURE 5200 PSI. ENDING PRESSURE 4800 PSI. TURN WELL OVER TO FRAC CREW
	17:30	17:30	0.00	STG05	35		P		PRESSURE TEST LINES TO 9542 PSI. OPEN WELL. SICP 5018 PSI. BREAK DOWN STAGE 5 PERFORATIONS @ 5736 PSI, PUMPING 8 BPM. BRING RATE UP TO 31 BPM. PUMP 60 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN. ISIP 5025 PSI. FG .83. 5 MIN 4928 PSI. 10 MIN 4903 PSI. . TREAT STAGE 5 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,100 LBS POWER PROP 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 3734 PSI. FG .86. AVG RATE 76 BPM. MAX RATE 79 BPM. AVG PSI 6020 PSI. MAX PSI 8258 PSI. SHUT WELL IN USING FRAC STACK W/ CSG VALVES CLOSED & CAPPED. 3715 BBLS FLUID TO RECOVER.
2/1/2015	6:00	10:00	4.00	STG06	21		P		RIH & ATTEMPT TO SET CBP @ 12277'. UNABLE TO SET CBP. POOH & REPAIR EQUIPMENT. RIH & SET CBP @ 12277'. PERFORATE STAGE 6 PERFORATIONS 11953' TO 12262' USING 2-3/4" PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. BEGINNING PRESSURE 4800 PSI. ENDING PRESSURE 4200 PSI. TURN WELL OVER TO FRAC CREW

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	10:00	11:30	1.50	STG06	35		P		PRESSURE TEST LINES TO 9370 PSI. OPEN WELL. SICP 4263 PSI. BREAK DOWN STAGE 6 PERFORATIONS @ 4778 PSI, PUMPING 10 BPM. BRING RATE UP TO 36 BPM. PUMP 78 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN. ISIP 4177 PSI. FG .77. 5 MIN 4012 PSI. 10 MIN 3973 PSI. . TREAT STAGE 6 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000LBS 100 MESH SAND IN 1/2 PPG STAGE & 150,040 LBS POWER PROP 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 4749 PSI. FG .82. AVG RATE 76.4 BPM. MAX RATE 79.6 BPM. AVG PSI 6009 PSI. MAX PSI 8107 PSI. TURN WELL OVER TO WIRE LINE. 3759 BBLS FLUID TO RECOVER.
	11:30	13:00	1.50	STG07	21		P		. RIH & SET CBP @ 11873'. PERFORATE STAGE 7 PERFORATIONS 11580' TO 11858' USING 2-3/4" PERFECTA SDP GUNS, 16 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. BEGINNING PRESSURE 4300 PSI. ENDING PRESSURE 3700 PSI. TURN WELL OVER TO FRAC CREW
	13:00	14:30	1.50	STG07	35		P		PRESSURE TEST LINES TO 9370 PSI. OPEN WELL. SICP 3068 PSI. BREAK DOWN STAGE 7 PERFORATIONS @ 3995 PSI, PUMPING 10 BPM. BRING RATE UP TO 34 BPM. PUMP 103 TTL BBLS FLUID THEN PERFORM STEP RATE SHUT DOWN. ISIP 4588 PSI. FG .82. 5 MIN 4481 PSI. 10 MIN 4438 PSI. . TREAT STAGE 7 PERFORATIONS W/ 5000 GALLONS HCL ACID, 3000LBS 100 MESH SAND IN 1/2 PPG STAGE & 148,900 LBS POWER PROP 30/50 SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3 PPG STAGES. ISIP 5196 PSI. FG .87. AVG RATE 75 BPM. MAX RATE 79 BPM. AVG PSI 5924 PSI. MAX PSI 8143 PSI. SHUT WELL IN USING FRAC STACK W/ CSG VALVES CLOSED & CAPPED. 3774 BBLS FLUID TO RECOVER.
	14:30			RDMO	02		P		RD FRAC EQUIPMENT
2/2/2015	6:00	7:30	1.50	MIRU	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON RIGGING UP COIL TBG EQUIPMENT. FILL OUT & REVIEW JSA
	7:30	14:00	6.50	MIRU	01		P		SPOT & PARTIALLY RIG UP COIL TBG EQUIPMENT. STACK WTR IN FRAC TANKS. MIX KCL & BIOCIDE. HEAT WTR FOR CLEAN OUT
2/3/2015	6:00	7:00	1.00	CTU	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON COIL TBG SAFETY. FILL OUT & REVIEW JSA
	7:00	9:00	2.00	CTU	16		P		CONTINUE RIGGING UP COIL TBG UNIT. MU & TEST MOTOR CONNECTER.
	9:00	19:00	10.00	CTU	10		P		RIH & DRILL CBP'S PUMPING 2.5 BPM & RETURNING 3.5 BPM. PUMPED SWEEP AFTER DRILLING EACH CBP. CLEAN OUT TO PBTD. CIRCULATE 1 HR @ BOTTOM OF HOLE. POOH TO LINER TOP. CIRCULATE 1 HR. POOH.
	19:00	22:00	3.00	CTU	16		P		BREAK OUT MOTOR ASSEMBLY. BLOW COIL DRY. RD CT UNIT.
	22:00	6:00	8.00	FB	19		P		OPEN WELL TO FLOWBACK TANK. WELL FLOWING @ 4100 PSI ON A 12/64" CHOKE. FLOWED WELL8 HRS. RECOVERED 403 BBLS FLUID. PRESSURE @ REPORT TIME 4200 PSI
2/4/2015	6:00	6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		P		FLOW WELL TO FLOW BACK TANK. FOR 10 HRS, THEN TURNED WELL TO TREATER. RECOVERED 72 BBLS OIL, 409 MCF GAS & 409 BBLS WTR, FLOWING @ 4150 PSI ON A 12/64" CHOKE
2/5/2015	6:00	6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 810 MCF GAS, 299 BBLS OIL & 827 BBLS WTR, FLOWING @ 3750 PSI ON A 12/64" CHOKE

RECEIVED: Feb. 27, 2015

2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
2/6/2015	6:00	7:30	1.50	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON RIGGING UP RIG. FILL OUT & REVIEW JSA
	7:30	9:30	2.00	WOR	01		P		RU WORK OVER RIG. RU WIRELINE UNIT
	9:30	11:30	2.00	WOR	44		N		LAND OWNER ARRIVED ON LOCATION & REQUESTED ALL OPERATIONS BE STOPPED UNTIL PRODUCTION WATER TRANSPORTATION CONCERNS COULD BE DISCUSSED AND RESOLVED. TROY ANDERTON WAS CONTACTED. TROY CAME TO LOCATION AND TALKED TO LAND OWNER. HE THEN CALLED BARRY LOYD. BARRY TALKED TO LAND OWNER & THEY CAME TO A VERBAL AGREEMENT AND WORK CONTINUED
	11:30	13:30	2.00	WOR	27		P		EQUALIZED LUBRICATER. OPEN WELL. RIH & SET STI ARROWSET PKR @ 9860'. POOH & RD WIRELINE UNIT
	13:30	16:00	2.50	WOR	16		P		BLEED PRESSURE OFF WELL. ND FRAC STACK TO FRAC VALVE. NU BOP. RU WORK FLOOR
	16:00	19:00	3.00	WOR	24		P		TIH W/ ON / OFF SKIRT, 5 JTS 2-3/8"EUE TBG, X-OVER & 218 JTS 2-7/8"EUE TBG. SDFN
2/7/2015	6:00	7:30	1.50	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON PICKING UP TBG. FILL OUT & REVIEW JSA
	7:30	9:30	2.00	INSTUB	24		P		CONTINUE TIH PICKING UP 284 JTS 2-7/8"EUE TBG. TAG SAND @ 9830'. BREAK REVERSE CIRCULATION & CIRCULATE DOWN TO PKR SET & 9860'.
	9:30	13:00	3.50	INSTUB	06		P		CONTINUE CIRCULATING 450 TTL BBLS PKR FLUID
	13:00	16:00	3.00	INSTUB	16		P		SPACE OUT TBG. LAND TBG ON TBG HANGER IN COMPORESSION W/ BACK PRESSURE INSTALLED. ND BOP & FRAC VALVE. REMOVE BACK PRESSURE VALVE. PU ON TBG & REMOVE 6' PUP JT BELOW TBG HANGER. LAND TBG IN 15K TENSION W/ BACK PRESSURE VALVE INSTALLED. NU WELL HEAD & TEST TO 10000 PSI FOR 15 MINUTES. TESTED GOOD. REMOVE BACK PRESSURE VALVE. PLUMB & TEST FLOW LINES TO 5000 PSI. TESTED GOOD. PRESSURE TEST ANNULUS TO 2000 PSI FOR 15 MINUTES. TESTED GOOD. PUMP OUT PLG IN PKR @ 5000 PSI. OPEN WELL TO TREATER. RD RIG
	16:00	6:00	14.00	WOR	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 317 MCF GAS, 261 BBLS OIL & 348 BBLS WTR FLOWING @ 4050 PSI ON A 12/64" CHOKE
2/8/2015	6:00	6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 981 MCF GAS, 432 BBLS OIL & 472 BBLS WTR FLOWING @ 3925 PSI ON A 12/64" CHOKE
2/9/2015	6:00	6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 917 MCF GAS, 393 BBLS OIL & 458 BBLS WTR FLOWING @ 3780 PSI ON A 12/64" CHOKE
2/10/2015	6:00	6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED1321 MCF GAS, 666 BBLS OIL & 904 BBLS WTR FLOWING @ 2500 PSI ON A 14/64" CHOKE
2/11/2015	6:00	6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 1383 MCF GAS, 614 BBLS OIL & 725 BBLS WTR FLOWING @ 1975 PSI ON A 14/64" CHOKE

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
2/12/2015	6:00	6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30	6:00	23.50	FB	19		P		FLOW WELL TO PRODUCTION FACILITY RECOVERED 1227 MCF GAS, 547 BBLS OIL & 600 BBLS WTR, FLOWING @ 1700 PSI ON A 14/64" CHOKE

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: Fee

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: Oil Well

8. WELL NAME and NUMBER: Hamaker 3-25A1

2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.

9. API NUMBER: 43047547350000

3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002
PHONE NUMBER: 713 997-5038 Ext

9. FIELD and POOL or WILDCAT: BLUEBELL

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0905 FNL 2088 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 25 Township: 01.0S Range: 01.0W Meridian: U

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT
  Approximate date work will start:
- ✓ SUBSEQUENT REPORT
  Date of Work Completion: 12/18/2015
- ☐ SPUD REPORT
  Date of Spud:
- ☐ DRILLING REPORT
  Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Pump Work

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

Downsize & Deepen. See attached for details.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
January 12, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Maria S. Gomez	713 997-5038	Principal Regulatory Analyst

SIGNATURE	DATE
N/A	1/11/2016

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CENTRAL DIVISION

ALTAMONT FIELD
HAMAKER 3-25A1
HAMAKER 3-25A1
WORKOVER 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.

RECEIVED: Jan. 11, 2016

1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	HAMAKER 3-25A1		
Project	ALTAMONT FIELD	**Site**	HAMAKER 3-25A1
Rig Name/No.	COROD RIG/X	**Event**	WORKOVER LAND
Start date	12/14/2015	**End date**	12/19/2015
Spud Date/Time	12/1/2014	**UWI**	HAMAKER 3-25A1
Active datum	KB @5,475.6ft (above Mean Sea Level)		
Afe No./Description	165917/55704 / HAMAKER 3-25A1		

2 Summary

2.1 Operation Summary

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
12/15/2015	9:00	10:00	1.00	UNINARTLT	28		P		CREW TRAVEL TO LOCATION. HSM, WRITE AND REVIW JSA. TOPIC - HELP, SNOWY/SLICK CONDITIONS
	10:00	11:00	1.00	MIRU	03		P		SLIDE ROTAFLEX. MIRU WOR & HOT OIL TRUCK. PUMP HOT H2O DOWN CSG.
	11:00	15:00	4.00	UNINARTLT	03		P		LAY DOWN POLISH ROD. ATTEMPT TO UNSEAT PUMP. PUMP 250 BBLS HOT H20 DWN CSG. PART SHEAR SUB. RU CO ROD WHEEL.
	15:00	17:15	2.25	UNINARTLT	03		P		POOH W COROD. BAD WEAR 6,600' - 7,000'. NO CORROSION/PITTING. INSTALL RATAGIN & POLISH ROD. SHUT ROD BOP. SECURE WELL. SDFD.
12/16/2015	6:00	7:00	1.00	PRDHEQ	28		P		CREW TRAVEL HSM WRITE & REVIEW JSA (TOPIC) RIGGING UP RIG
	7:00	8:15	1.25	MIRU	01		P		MIRU W/O RIG, HOT OILER PUMPING DOWN CSG
	8:15	13:30	5.25	WLWORK	21		P		MIRU THE PERFORATORS, RIH PERF TBG, STACKED OUT IN WAX FROM 5090' TO 7980', FELL THROUGH PERF TBG @ 9550' W/ 4 SHOTS, POOH RDMO WIRELINERS
	13:30	14:15	0.75	PRDHEQ	18		P		FLUSH TBG W/ 1 DRUM PARAFFIN SOLVENT & 60 BBLS HOT 2% KCL
	14:15	15:30	1.25	PRDHEQ	16		P		N/D B-FLANGE, LAND TBG ON HANGER, N/U BOPS, R/U WORK FLOOR & TONGS, HARD TO RELEASE 7" TAC
	15:30	17:30	2.00	PRDHEQ	39		P		R/U PRS, POOH SCANNING TBG W/ 2 JTS 2 7/8", TAC HANGING UP, WORK & TURN TBG TRYING WORK TAC THROUGH CSG COLLAR, FAILED, R/D PRS, SECURE WELL SDFN.
12/17/2015	6:00	7:00	1.00	PRDHEQ	28		P		CREW TRAVEL HSM WRITE & REVIEW JSA (TOPIC) POWER SWIVEL,
	7:00	8:30	1.50	PRDHEQ	39		P		BLED OFF WELL, R/U POWER SWIVEL, WORK & TURN TBG GOT TAC FREE, SWIVEL OUT 3 JTS 2 7/8", R/D SWIVEL
	8:30	16:30	8.00	PRDHEQ	39		P		R/U PRS, POOH SLOW TAC HANGING UP SCANNING TBG W/ 286 JTS 2 7/8" HAD 253 YELLOW, L/D 33 BLUE & 1 RED, R/D PRS, L/D PERF JT, JT WITH PUMP STUCK IN IT, 4' SUB, PSN, 2' SUB, 5 1/2" PBGA, 2 JTS 2 7/8", 5 3/4" SOLID NO/GO, FLUSH TBG SEVERAL TIMES, POOH.

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	16:30	18:00	1.50	WLWORK	18		P		MIRU THE PERFORATORS, RIH W/ 1-11/16" SINKER BAR, TAG FILL @ 13,788', 31' BELOW PERF @ 13,757', OLD PBTD @ 13,921' SLM, POOH, R/D WIRELINERS, SECURE WELL, SDFN
12/18/2015	6:00	7:00	1.00	PRDHEQ	28		P		CREW TRAVEL HSM WRITE & REVIEW JSA (TOPIC) HYDRO TESTING TUBING
	7:00	15:00	8.00	PRDHEQ	39		P		BLED OFF WELL, P/U BHA, 2 3/8" BULL PLUG, 2 JTS 2 3/8", 2 3/8" #3 DESANDER, 2' SUB, PSN, 4' SUB, 4 JTS 2 3/8", 1/4 TURN 5" KLX TAC, 54 JTS 2 3/8", 2 3/8" X 2 7/8" X-O, R/U HYDRO TESTER, TIH TESTING YB TBG W/ 253 JTS 2 7/8", R/D TESTER P/U 40 JTS 2 7/8" YB TBG FROM TUBOSCOPE, R/D WORK FLOOR, SET 1/4 TURN KLX TAC IN 25,000 LBS,
	15:00	16:00	1.00	PRDHEQ	16		P		N/D 5K BOPS & 10K X 5K SPOOL, SET 1/4 TURN KLX TAC IN 25,000 LBS, N/U 10K B-FLANGE W/ 60' CAPSTRING & PUMP TEE, SECURE WELL.
	16:00	17:30	1.50	RDMO	02		P		RDMO W/O RIG, CLEAN LOC., SDFN
12/19/2015	6:00	7:00	1.00	PRDHEQ	28		P		CREW TRAVEL, HSM, WRITE & REVIEW JSA (TOPIC) HAND PLACEMENT
	7:00	8:00	1.00	MIRU	01		P		MIRU COROD RIG, FLUSH TBG W/ 60 BBLS HOT 2% & ROD CHEM
	8:00	15:30	7.50	INARTLT	39		P		RIH W/ 2" X 1 1/2" X 36' HF PUMP, 1350' # 6, 4947" # 5, POOH CUTTING UP 900' OF BAD # 5, WELD ON 2803' NEW # 5 RIH, WELD NEW TO OLD, RIH W/ 1208' # 6, 1042 # 7, 940' # 8, TAG CUT OUT 120' # 8 WELD ON 1" PIN, SPACE OUT W/ 2', 4', 6', 8' PONY SUBS, P/U POLISH ROD SEAT PUMP @ 11,362'
	15:30	16:00	0.50	PRDHEQ	18		P		FILL TBG W/ 20 BBLS 2% KCL, STROKE TEST PUMP TO 1000 PSI, FLUSH FLOW LINE W/ 20 HOT BBLS
	16:00	17:00	1.00	RDMO	02		P		RDMO COROD RIG, SLIDE IN ROTA FLEX, HANG OFF COROD, TWOTO.

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: Fee

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
Hamaker 3-25A1

2. NAME OF OPERATOR:
EP ENERGY E&P COMPANY, L.P.

9. API NUMBER:
43047547350000

3. ADDRESS OF OPERATOR:
1001 Louisiana , Houston, TX, 77002

PHONE NUMBER:
713 997-5138 Ext

9. FIELD and POOL or WILDCAT:
BLUEBELL

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0905 FNL 2088 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENW Section: 25 Township: 01.0S Range: 01.0W Meridian: U

COUNTY:
UINTAH

STATE:
UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 12/5/2016	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	✓ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

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

Approved by the
October 25, 2016
Oil, Gas and Mining

Date:

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Linda Renken	713 997-5138	Sr. Regulatory Analyst

SIGNATURE	DATE
N/A	10/18/2016

RECEIVED: Oct. 18, 2016

Hamaker 3-25 A1 - Recom Summary Procedure

- POOH with co-rod, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- Set 15k CBP for 5" 18# casing @ 10,115' w/ 15' cement dump bailed on plug. Test casing to frac pressure.
- Stage 1:
  - Perforate new CP 70 interval from **9,800' - 10,016'.**
  - Prop Frac perforations with **120,000** lbs 30/50 prop (w/ **8,000** lbs 100 mesh & **8,000** gals 15% HCl acid) (Stage 1 Recom).
- Stage 2:
  - RIH with 7" CBP & set @ **9,681'**.
  - Perforate new LGR interval from **9,309' - 9,666'.**
  - Acid Frac Perforations with **25,000** gals 15% HCl acid (Stage 2 Recom).
- Stage 3:
  - RIH with 7" CBP & set @ **9,263'**.
  - Perforate new LGR interval from **9,034 - 9,248'.**
  - Acid Frac Perforations with **19,000** gals 15% HCl acid (Stage 3 Recom).
- Clean out well drilling up (2) 7" CBPs at 9,263' and 9,681', leaving cement and 5" 15k CBP @ 10,115' w/ 15' CMT. Top perf BELOW plugs @ 11,580'.
- RIH w/ production tubing and rods.
- Clean location and resume production.

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EP ENERGY

Hamaker 3-25A1

Altamont Field, Duchesne County, Utah

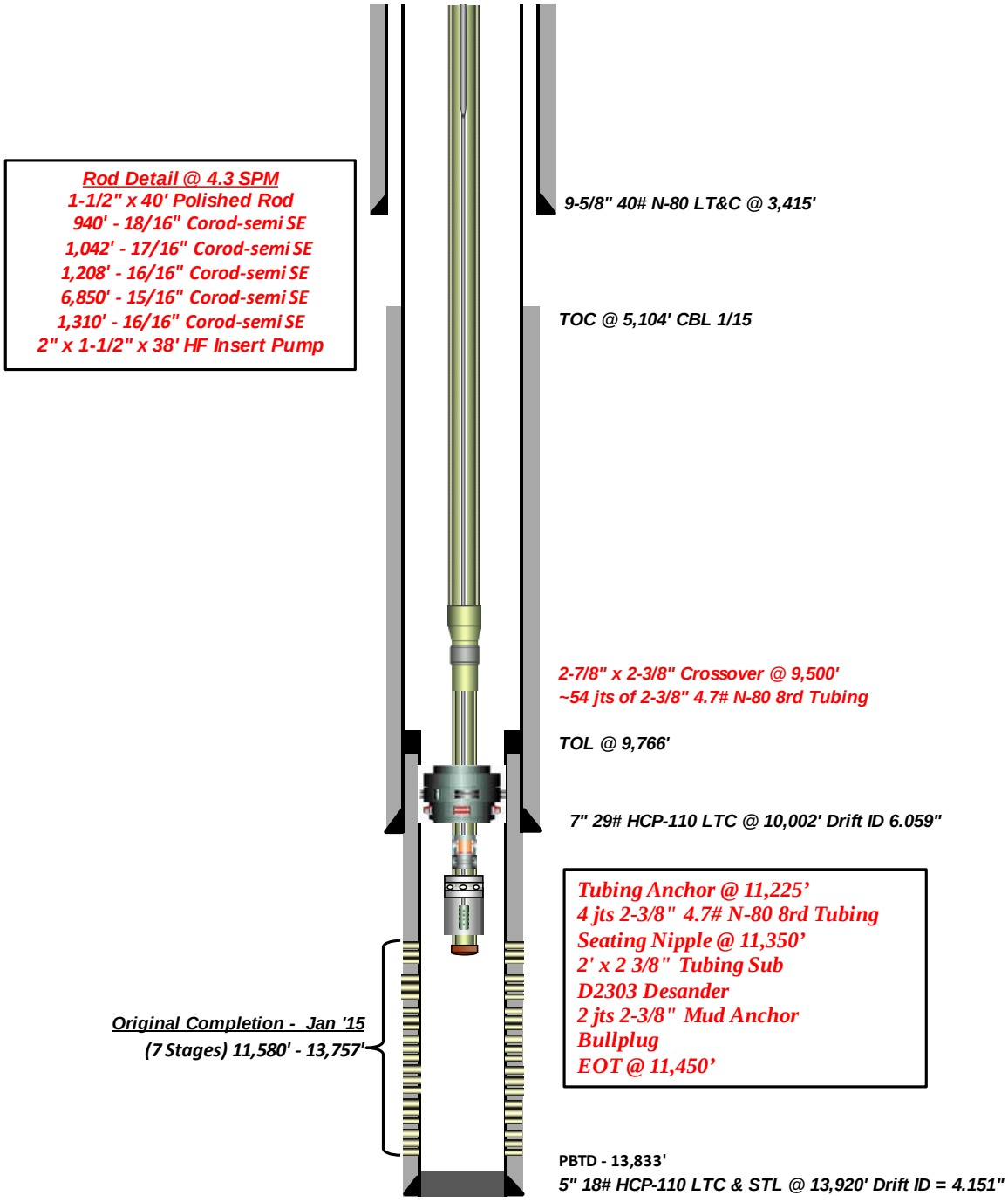
Latitude = 40° 22' 20.11"N Longitude = 109° 56' 48.13"W

API #: 43-047-54735

Spud: December 2014

S25 T1S R1W

Current Pumping Schematic



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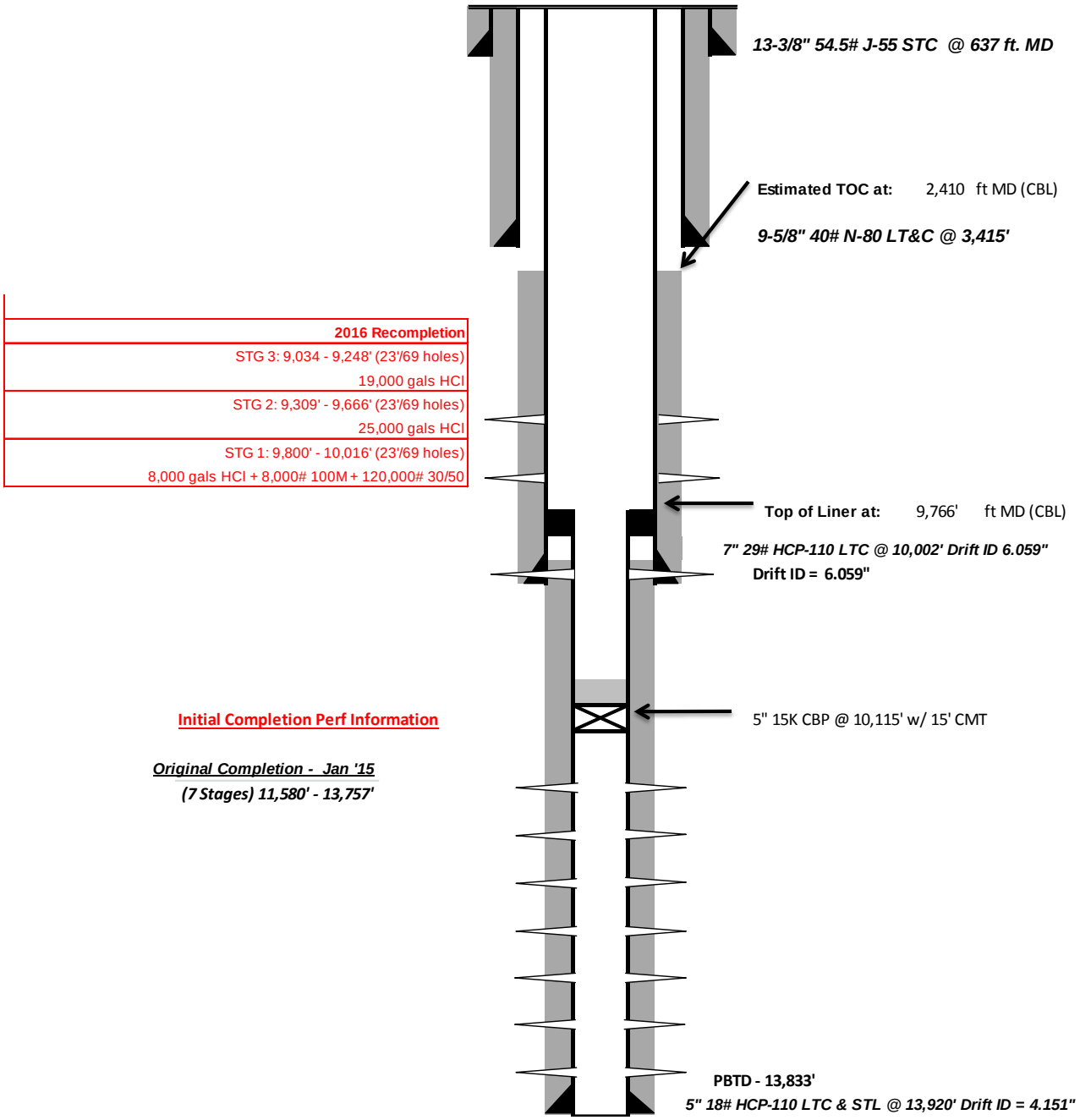
EP ENERGY

Proposed Recompletion Schematic

Well Name:	Hamaker 3-25 A1	Last Updated:	10/17/2016
Company Name:	EP Energy	By:	Fondren
Field, County, State:	Altamont, Duchesne, UT	TD:	11,052
Surface Location:	Latitude = 40° 22' 20.11"N Longitude = 109° 56' 48.13"W	API:	4304754735
Producing Zone(s):	LGR, CP 70, Wasatch	AFE:	



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Reset Form

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

AMENDED REPORT ☐ (highlight changes)

FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME

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

8. WELL NAME and NUMBER: Hamaker 3-25A1

2. NAME OF OPERATOR: EP Energy E&P Company, L.P.

9. API NUMBER: 4304754735

3. ADDRESS OF OPERATOR: 1001 Louisiana CITY Houston STATE TX ZIP 77002

PHONE NUMBER: (713) 997-6717

10 FIELD AND POOL, OR WILDCAT: Bluebell

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 905' FNL & 2088' FWL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 1352' FNL & 1624' FWL
AT TOTAL DEPTH: 1403' FNL & 1669' FWL

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 25 1S 1W U

12. COUNTY: Uintah

13. STATE: UTAH

14. DATE SPUDDED: 11/27/2014

15. DATE T.D. REACHED: 1/4/2015

16. DATE COMPLETED: 12/7/2016 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 5468 GL

18. TOTAL DEPTH: MD 13,920 TVD 13,880

19. PLUG BACK T.D.: MD 13,833 TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD 10,115 TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
Sonic, Gamma Ray, Resistivity & Neutron Density

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
Previously		54.5	0	801			1150	0	
Submitted		40	0	3413			1890	0	
8.75		29	0	10002			1552	5104	
6.125		18	9776	13920			710	9776	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	9,094	9884						

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) LGR	8,905	9,873	8,867	9,835
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
	.43	69	Open ☐ Squeezed ☐
	.43	60	Open ☐ Squeezed ☐
	.43	69	Open ☐ Squeezed ☐
	.43	69	Open ☐ Squeezed ☐

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

WAS WELL HYDRAULICALLY FRACTURED? YES ☑ NO ☐ IF YES -- DATE FRACTURED: 11/30/2016

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
13449-13757	5000 gal 15% HCL acid, 3000# 100 mesh, 150300# 30/50 PowerProp
13201-13421	5000 gal 15% HCL acid, 3000# 100 mesh, 150300# 30/50 PowerProp
12901-13171	5000 gal 15% HCL acid, 3000# 100 mesh, 150200# 30/50 PowerProp

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: Prod

(5/2013)

(CONTINUED ON BACK)

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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:
12/9/2016	12/26/2016	24		251	68	84	Rod Pump

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:
0	88	86	42.00	1,349	0		625	1308	904	PROD

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.)

Sold

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.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.

34. FORMATION (Log) MARKERS:

Name	Top (Measured Depth)
Wasatch	9,873
LGR	8,905
MGR	7,729
UGR	5,650

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) Erik Hauser TITLE Sr. HSER Specialist

SIGNATURE Digitally signed by Erik Hauser DN: cn=Erik Hauser, o=EP Energy, ou=HSER, email=erik.hauser@epenergy.com, c=US Date: 2017.01.06 14:55:36 -06'00' DATE 1/6/2017

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
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

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Attachment to Well Completion Report

Date: 12/20/2016

Well Name: Hamaker 3-25A1

Items #27 and #28 Continued

27. Perforation Record

Interval (Top/Bottom–MD)	Hole Size	No. of Holes	Perf. Status
9800'-10009"	0.46"	69	Open
9304'-9660'	0.46"	114	Open
9029'-9244'	0.46"	69	Open

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

Depth Interval	Amount and Type of Material
9800'-10009"	8000 gal 15% HCL, 8520# 100 mesh, 120840# 30/50 white
9304'-9660'	26460 gal 15% HCL
9029'-9244'	22176 gal 15% HCL

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1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	HAMAKER 3-25A1		
Project	ALTAMONT FIELD	**Site**	HAMAKER 3-25A1
Rig Name/No.		**Event**	RECOMPLETE LAND
Start date	11/30/2016	**End date**	12/7/2016
Spud Date/Time	12/1/2014	**UWI**	HAMAKER 3-25A1
Active datum	KB @5,475.6ft (above Mean Sea Level)		
Afe No./Description	167442/57555 / HAMAKER 3-25A1		

2 Summary

2.1 Operation Summary

Date	Time Start-End		Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
12/1/2016	15:30	17:30	2.00	MIRU	01		P		MOVE RIG FROM 3-17A3, HSM, SLIDING ROTAFLEX. SLIDE ROTAFLEX BACK, LOTO ROTAFLEX. SPOT & R/U COROD RIG.
12/2/2016	6:00	7:00	1.00	WBP	28		P		TRAVEL TO LOCATION, HSM, SPOOLING COROD 200# FTP & FCP, BLEED OFF. 6 AM HOT OILER START PUMPING DOWN CSG W/ 2% KCL @ 200 DEG.
	7:00	7:30	0.50	WBP	39		P		L/D 1 1/2" X 40' POLISH ROD, P/U ON ROD STRING UNSEAT PUMP, L/D 1-2', 1-4', 1-6', 1-8' X 1" EL PONY RODS, CLOSE BAG.
	7:30	8:30	1.00	WBP	18		P		HOT OILER FLUSH COROD W/ 60 BBLS 2% KCL @ 200 DEG.
	8:30	11:00	2.50	WBP	39		P		POOH W/ 820'-18/16" SE COROD 1042' - 17/16" SE COROD 1208' - 16/16" SE COROD 6850' - 15/16" SE COROD 1350' - 16/16" SE COROD L/D TM-90 ON/OFF TOOL, 2" X 1 1/2" X 36' RXBC PUMP.
	11:00	12:00	1.00	RDMO	02		P		RDMO COROD RIG, CLEAN LOCATION, MOVE COROD RIG TO 3-28C4. TBG PLUGGED & CAPPED, CSG OPEN TO SALES.
	12:00	18:00	6.00	MIRU	01		P		MIRU ND WELL HEAD, RE LAND TUBING W/ PUP JT, NU AND TEST BOP, RU WORK FLOOR AND RELEASE TAC.
12/3/2016	6:00	7:30	1.50	WOR	28		P		CT TGSM & JSA (SCANNING TUBING)
	7:30	18:00	10.50	WOR	24		P		BWD, SPOT PIPE RACKS AND CAT WALK. RU SCANERS, SCAN OUT 193 YELLOW, 90 BLUE AND 9 RED 2 7/8". X/O TO 2 3/8" EQ. CONTINUE SCANNING 1 YELLOW 12 BLUE AND 45 RED 2 3/8", LAY DOWN BHA. SWI CT.
12/4/2016	6:00	7:30	1.50	WLWORK	28		P		CT TGSM & JSA (WIRE LINE OPERATIONS)
	7:30	19:30	12.00	WLWORK	26		P		RU WIRE LINE ATTEMPT TO TEST LUBE (LEAKED THROUGH BLIND RAMS) NO VISIBLE LEAKS WHILE PRESSURING UP. MAKE 6 1/8" GR TO 9766' 4 1/8" GR TO 10120'. SET 15K CBP @ 10115', FILL CASING W/ 195 BBLS. DUMP BAIL 15' CEMENT ON TOP OF CBP. ND BOP NU FRAC VALVE TEST TO 8K FOR 30 MINUTE. TEST NU STACK TEST ALL CONNECTIONS TO 9500. SHUT AND LOCK ALL VALVES.
12/5/2016	6:00	7:30	1.50	STG01	28		P		TGSM & JSA (PERFORATING OPERATIONS)

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	7:30	14:30	7.00	STG01	21		P		RIH AND PERFORATE STAGE 1 10,009' TO 9,800' WITH 3 1/8" TAG-RTG GUN W/ 16 GM CHARGES, 3 JSPF & 120° PHASING. ALL PERFORATIONS ARE CORRELATED THE PERFORATORS Cement Bond Gamma Ray Collars 1/22/15, 23' NET OVER 16 INTERVALS 69 HOLES. HOLD 1000 PSI PRESSURE, ENDING PRESSURE @ 700 PSI. SHUT AND LOCK HCR VALVES.
12/7/2016	6:00	8:00	2.00	MIRU	28		P		ROAD FRAC EQUIPMENT TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; FRAC & WIRELINE OPERATIONS
	8:00	17:00	9.00	MIRU	01		P		START MIRU FRAC EQUIPMENT MIRU WIRELINE
	17:00	21:50	4.83	MIRU	01		N		FINISH RIGGING UP COULD NOT GET CLUTCH ON BLENDER TO ENGAGE RUN AIR LINE TO BLENDER GOT CLUTCH TO ENGAGE 1 PUMP TRUCK WOULD NOT STAY RUNNING THROWING FUEL CODE CHANGE FUEL FILTER STILL WOULD NOT RUN BRAKE OUT TRUCK TO TAKE TO VERNAL EXCHANGE FOR DIFFERENT PUMP AS PER ROBERT FONDREN SDFN WELL STILL SECURE WELL WAS NEVER OPEN VERIFY MASTER CLOSED BARRIER 1 HCR VALVES CLOSED AND LOCK BARRIER 1 & 2 CSG VALVES CLOSED WITH NIGHT CAP SDFN
12/8/2016	6:00	7:00	1.00	STG01	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; FRAC OPERATIONS
	7:00	8:55	1.92	STG01	35		P		PRIME TRUCKS SET POP OFFS TEST PUMP AND LINE NEW 15K CHECK VALVE ON PUMP 8 FAILED AT 9500 PSI TESTED 8/16...MUSTER CREW AT MUSTER AREA VITRIFY ALL CREW MEMBER ACCOUNT FOR NO ONE WAS INJURED REPLACE CHECK VALVE AND RE-TEST
	8:55	10:47	1.87	STG01	35		P		STAGE 1; PRESSURE TEST LINES TO 9500 PSI. OPEN WELL. 1995 PSI BRAKE DOWN STG 1 PERFORSTION 10009' TO 9800' AT 4965 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 4134 PSI FG .84 5MIN 3973 PSI 10 MIN 3902 PSI 15MIN 3875 PSI 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 4572 PSI. 5 MIN 4343 PSI 10 MIN 4190 PSI 15 MIN 4141 PSI AVG RATE 71.2 BPM. AVG PSI 5342 PSI. MAX PSI 6129 PSI. TTL PROP 120840# TURN WELL OVER TO WIRELINE
	10:47	14:30	3.72	STG02	21		P		STAGE 2; SET COMPOSITE FRAC PLUG AT 9675' PRESSURE ON WELL 3900 PSI PERFORATE STAGE 2 PERFORATIONS 9660' TO 9304', 38 NET FEET 114 TTL SHOTS w/ 3-1/8" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 3500 PSI ALL PERFS CORRELATED TO THE PERFORATERS CBL/GR/CCL LOG RUN #1 1/22/2015
	14:30	15:43	1.22	STG02	35		P		STAGE 2; PRESSURE TEST LINES TO 9500 PSI. OPEN WELL 3500 PSI BRAKE DOWN STG 2 PERFORSTION 9660' TO 9304' AT 3905 PSI, TREAT w/ 30000 GAL 15% HCL ACID DROP 25 BIO BALL EVERY 3750 GALS 7 DROPS FLUSH TO BTM PERF + 10 BBLS SHUT DOWN FOR 15 MIN ISDP 3792 PSI 5MIN 3625 PSI 10 MIN 3612 PSI 15MIN 3593 PSI TURN WELL OVER TO WIRELINE
	15:43	17:47	2.07	STG03	21		P		STAGE 3; SET COMPOSITE FRAC PLUG AT 9259' PRESSURE ON WELL 3600 PSI PERFORATE STAGE 3 PERFORATIONS 9244' TO 9029', 23 NET FEET 69 TTL SHOTS w/ 3-1/8" 3 JSPF, 120 DEG PHASING GUNS END PRESSURE 1500 PSI ALL PERFS CORRELATED TO THE PERFORATERS CBL/GR/CCL LOG RUN #1 1/22/2015

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	17:47	20:00	2.22	STG03	35		P		STAGE 3; PRESSURE TEST LINES TO 9500 PSI. OPEN WELL 1500 PSI BRAKE DOWN STG 3 PERFORSTION 9244' TO 9029' AT 2784 PSI, TREAT w/ 22000 GAL 15% HCL ACID DROP 15 BIO BALL EVERY 3143 GALS 6 DROPS FLUSH TO BTM PERF + 10 BBLS SHUT DOWN FOR 15 MIN ISDP 2775 PSI 5MIN 2140 PSI 10 MIN 1983 PSI 15MIN 1902 PSI SECURE WELL CLOSE 7" MASTER VALVE BARRIER 1 CLOSE AND LOCK 7" HCR VALVES BARRIER 1 & 2 CLOSE CSG VALVES w NIGHT CAPS BARRIER 1 & 2 LET ACID SOAK FOR 3 HRS
	20:00	23:00	3.00	RDMO	02		P		RDMO WIRELINE AND FRAC EQUIPMENT
	23:00	6:00	7.00	FB	17		P		OPEN WELL ON A 12/64 CHOCK TURN WELL OVER TO PRODUCTION
12/14/2016	6:00	11:00	5.00	WOR	28		P		WAIT FOR RIG TO FINISH THE MILES 2-25A4 P&A MOVE RIG FROM THE MILES 2-35A4 TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; RIG OPERATIONS
	11:00	17:30	6.50	WOR	16		P		N/D FRAC STACK MIRU RIG # PEAK 1900 N/D AND TEST BOP AND ANNULAR SET CAT WALK AND RACK AND TALLY TBG R/U FLOOR AND TONGS WELL IS SHUT IN MASTER 7" BARRIER 1 BLIND RAMS BARRIER 2 CSG VALVE CLOSED w NIGHT CAPS SDFN
12/15/2016	6:00	7:00	1.00	WOR	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; RIG OPERATIONS
	7:00	10:30	3.50	WOR	15		P		MIRU PUMP AND LINES THAW OUT MANIFOLD
	10:30	14:00	3.50	WOR	15		P		CSIP 760 PSI ATTEMPT TO BLEED OFF WELL FLOW 1.5 BPM KILL WELL w 200 BBLS OF 10# BRINE WATER MONITOR WELL FOR 15 MIN NO FLOW
	14:00	19:30	5.50	WOR	39		P		P/U 6" BIT SIH w 2-7/8" TBG WELL STRATED FLOWING SECURE WELL KILL WELL CONTINUE TIH TTL OF 138 JTS OF 2-7/8" TBG TO 4529' SECURE WELL CLOSE AND LOCK BOP BARRIER 1 CLOSE ANNULAR BARRIER 2 INSTALL TIW VALVE w NIGHT CAP BARRIER 1 & 2 7" CSG OPEN TO SALES SDFN
12/16/2016	6:00	7:00	1.00	WOR	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; RIG OPERATIONS
	7:00	9:30	2.50	WOR	15		P		CSIP 750 PSI TSIP 650 PSI BLEED OFF WELL CIRC OIL AND GAS OUT w 150 BBLS OF 2% KCL WATER KILL TBG w 30 BBLS OF 10 BRINE WATER
	9:30	12:16	2.77	WOR	39		P		CONTINUE TIH P/U 146-JTS OF 2-7/8" TBG TAG AT 9257'
	12:16	20:00	7.73	WOR	10		P		R/U POWER SWIVEL ESTABLISH CIRC HOT 2% KCL WATER DRILL 7" CBP AT 9259' C/O TO 2ND 7" CBP AT 9675' DRILL PLUG TOOK A 1000 PSI KICK CIRC CLEAN KILL TBG w 30 BBLS OF 10# BRINE WATER R/D POWER SWIVEL TOH w 34-JTS OF 2-7/8" TBG ABOVE PERFS AT 9167' R/U TIW VALVE w NIGHT CAP BARRIER 1 & 2 CLOSE AND LOCK BOP BARRIER 1 CLOSE ANNULAR BARRIER 2 CLOSE 7" CSG VALVES BARRIER 1 & 2 SDFN
12/17/2016	6:00	7:00	1.00	WOR	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; RIG OPERATIONS
	7:00	10:10	3.17	WOR	15		P		CSIP 1500 PSI TSIP 1100 PSI BLEED OFF WELL AND KILL TBG w 60 BBLS OF 10# BRINE WATER
	10:10	14:45	4.58	WOR	39		P		TIH w 36-JTS OF 2-7/8" TBG R/U POWER SWIVEL ESTABLISH CIRC FINISH DRILL PLUG PART C/O TO LINER TOP AT 9766' WHILE CIRC WELL CLEAN WELL CAME ON FILLING FLOW BACK TANK WITH OIL CONTINUE TO RIG TANK KILL TBG w 60 BBLS OF 10 BRINE WATER R/D POWER SWIVEL TOH w 37-JTS EOT 9167' ABOVE PERFS SECURE WELL R/U TIW VALVE w NIGHT CAP BARRIER 1 & 2 CLOSE AND LOCK BOP BARRIER 1 CLOSE ANNULAR BARRIER 2 CLOSE 7" CSG VALVES BARRIER 1 & 2
	14:45	18:00	3.25	FB	17		P		MIRU 2ND FLOW BACK R/U 2ND VALVE ON TBG w FLOW LINE TO CHOCK MANIFOLD REVERSE BRINE FLOW BACK WELL TO 2ND FLOW BACK TANK TURN WELL OVER TO FLOW BACK

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2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
12/18/2016	6:00	7:00	1.00	WOR	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; RIG OPERATIONS
	7:00	9:40	2.67	WOR	15		P		WELL FLOW OVER NIGHT MADE 28 BBLS OIL 121 BBLS OF WATER 90 PSI KILL WELL w 240 BBLS OF 10# BRINE WATER
	9:40	13:20	3.67	WOR	39		P		TOH w 280-JTS OF 2-7/8" TBG L/D 6" BIT
	13:20	15:56	2.60	WOR	39		P		TIH w 4-1/8" BIT 15-JTS OF 2-7/8" TBG 282-JTS OF 2-7/8" TBG TAG AT 9780'
	15:56	19:30	3.57	WOR	10		P		R/U POWER SWIVEL C/O TO PBTD AT 10100' CIRC CLEAN KILL TBG w 30 BBLS OF 10# BRINE R/D POWER SWIVELTOH L/D 39-JTS OF 2-7/8" TBG STANDBACK 18-JTS OF 2-7/8" TBG EOT 9057' SECURE WELL INSTALL TIW VALVE w NIGHT CAP BARRIER 1 & 2 CLOSE AND LOCK BOP BARRIER 1 CLOSE ANNULAR BARRIER 2 CLOSE 7" CSG VALVES BARRIER 1 & 2 DRAIN PUMP AND LINES SDFW
12/19/2016	6:00	18:00	12.00	FB	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; HEAT FLOW BACK TANKS...HEAT FLOW BACK TANKS AND TRANSFER OIL TO TANK 11 ON LOCATION
12/20/2016	6:00	8:00	2.00	WOR	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; RIG OPERATIONS
	8:00	11:40	3.67	WOR	15		P		CSIP 850 PSI TSIP 650 PSI KILL WELL CIRC CLEAN w 2% KCL PUMP 100 BBLS OF BRINE WATER
	11:40	17:00	5.33	WOR	39		P		TOH w 136-JTS OF 2-7/8" TBG WELL STARTED FLOWING EOT 4515' CIRC OUT OIL AND GAS w 200 BBLS OF 2% KCL KILL WELL w 150 BBLS OF 10# BRINE WATER FINISH TOH w 138-JTS OF 2-7/8" TBG L/D 4-1/8" BIT
	17:00	20:00	3.00	WOR	39		P		P/U 5 3/4" SOLID NO-GO 2-JTS OF 2-7/8" TBG 5 1/2" BPGA 2' X 2-7/8" TBG SUB 2-7/8" PSN 4-JTS OF 2-7/8" TBG 7" TAC 271-JTS OF 2-7/8" TBG SECURE WELL CLOSE BOP AND LOCK BARRIER 1 CLOSE ANNULAR BARRIER 2 INSTALL TIW VALVE w NIGHT CAP BARRIER 1 & 2 CLOSE CSG VALVES w NIGHT CAPS BARRIER 1 & 2 SDFN

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END OF WELL REPORT

FINAL SURVEYS	SECTION 1
DAILY ACTIVITIES	SECTION 2
BHA REPORTS	SECTION 3
MOTOR REPORTS	SECTION 4
SLIDE SHEET REPORTS	SECTION 5
ADDITIONAL REPORTS	SECTION 6

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FINAL SURVEYS

RECEIVED: Jan. 06, 2017

Sundry Number: 77323 API Well Number: 43047547350000

EP ENERGY

Weatherford

Plan Data for HAMAKER 3-25A1

Field: UTAH_ CENTRAL ZONE_NAD83
Map Unit: USFt Vertical Reference Datum (VRD):
Projected Coordinate System: NAD83 / Utah Central (ftUS)

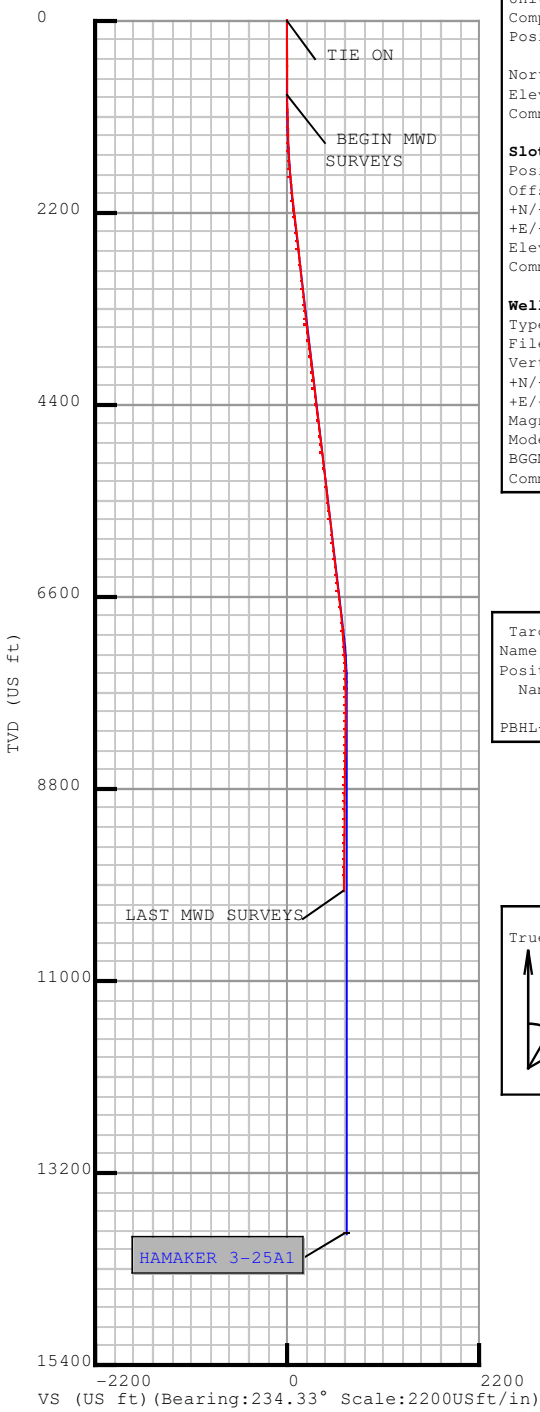
Site: HAMAKER 3-25A1
Unit: USFeet TVD Reference:
Company Name: EP ENERGY
Position: Northing: 7308081.48USft Latitude: 40°22'20.1"
Easting: 2073174.48USft Longitude: -109°56'48.1"
North Reference: True Grid Convergence: 1.00°
Elevation Above VRD: 5458.60USft
Comment: UINTAH COUNTY, UT

Slot: HAMAKER 3-25A1
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 7308081.48USft Latitude: 40°22'20.1"
+E/-W: 0.00USft Easting: 2073174.48USft Longitude: -109°56'48.1"
Elevation Above VRD: 5458.60USft
Comment: PRECISION 404

Well: HAMAKER 3-25A1
Type: Main-Well
File Number:
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 234.33°
+E/-W: 0.00USft
Magnetic Parameters:

Model:	Field Strength:	Declination:	Dip:	Date:
BGGM	52044(nT)	11.01°	65.99°	2014-11-26

Comment: PRECISION 404 (17' RKB)



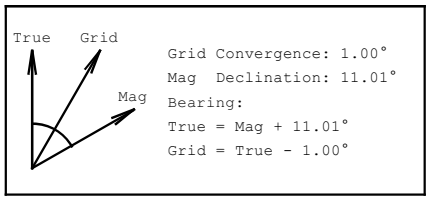
Target Set Information:
Name: HAMAKER 3-25A1 PBHL (1300' FNL & 1500'FWL, SEC.25)
Position offsets from Slot centre

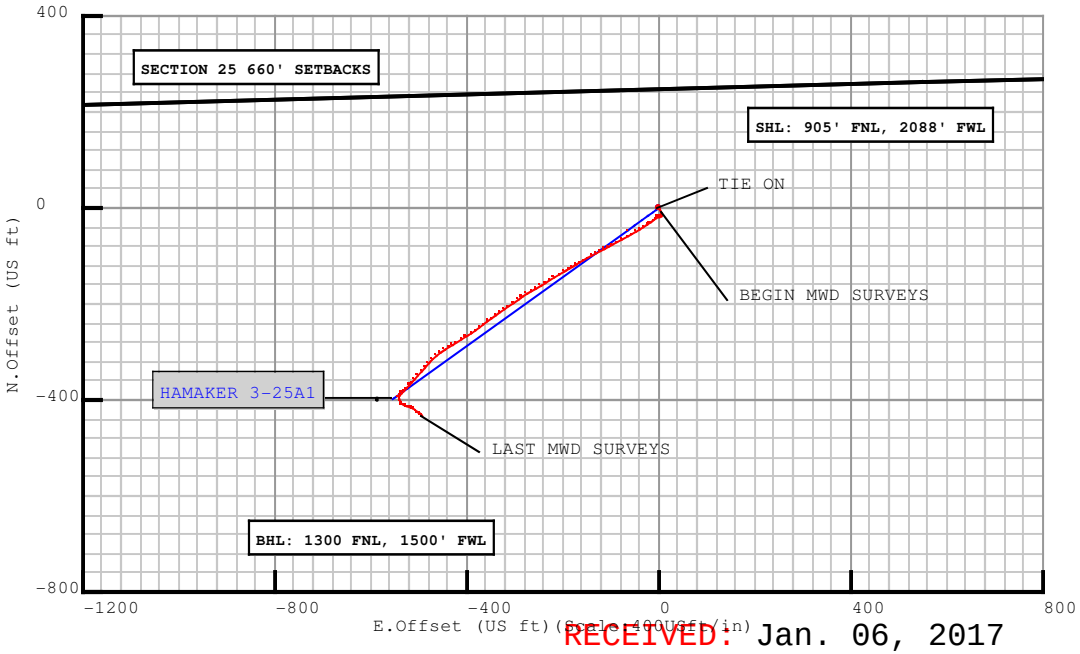
Name	TVD (USft)	+N/-S (USft)	+E/-W (USft)	Lat (°/'/")	Long (°/'/")
PBHL-1	13900.00	-399.62	-586.78	40°22'16.2"	-109°56'55.7"

Survey Data for HAMAKER 3-25A1

Survey Point Information:
DogLeg Severity Unit: °/100.00ft Position offsets from Slot centre

MD (USft)	Inc (°)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	VSec (USft)	DLS (DLSU)	Toolface (°)	Build (DLSU)	Turn (DLSU)	
10009.00	1.21	148.95	9970.62	-433.66	-493.09	653.46	0.14	107.8	-0.03	6.30	last mwd srv





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5D Survey Report

EP ENERGY

Field Name: *UTAH_ CENTRAL ZONE_NAD83*
Site Name: *HAMAKER 3-25A1*
Well Name: *HAMAKER 3-25A1*
Survey: *Definitive Survey*

26 January 2015

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HAMAKER 3-25A1

Field Name

UTAH_ CENTRAL ZONE_NAD83

Map Units : US ft

Company Name : EP ENERGY

Vertical Reference Datum (VRD) :

Projected Coordinate System : NAD83 / Utah Central (ftUS)

Comment :

Site Name

HAMAKER 3-25A1

Units : US ft

North Reference : True

Convergence Angle : 1.00

Position

Northing : 7308081.48 US ft

Easting : 2073174.48 US ft

Latitude : 40° 22' 20.11"

Longitude : -109° 56' 48.13"

Elevation above VRD:5458.60 US ft

Comment : UINTAH COUNTY, UT

Slot Name

HAMAKER 3-25A1

Position (Offsets relative to Site Centre)

+N / -S : 0.00 US ft

+E / -W : 0.00 US ft

Northing :7308081.48 US ft

Easting :2073174.48 US ft

Latitude : 40°22'20.11"

Longitude : -109°56'48.13"

Elevation above VRD : 5458.60 US ft

Comment : PRECISION 404

Well Name

HAMAKER 3-25A1

Type : Main well

UWI :

Rig Height ***Well TVD Reference*** **:** 17.00 US ft

Relative to VRD: 5475.60 US ft

Comment : PRECISION 404 (17' RKB)

Closure Distance : 656.664 US ft

Closure Azimuth : 228.669°

Vertical Section (Position of Origin Relative to Slot)

+N / -S : 0.00 US ft

+E / -W : 0.00 US ft

Az :234.33°

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5D Survey Report

Target Set

Name : HAMAKER 3-25A1 PBHL (1300' FNL & 1500'FWL, SEC.25) **Number of Targets :** 1

Comment :

TargetName:	Position (Relative to Slot centre)		
PBHL-1	**+N / -S :** -399.62US ft	**Northing :** 7307671.74 US ft	**Latitude :** 40°22'16.16"
Shape:	**+E / -W :** -586.78 US ft	**Easting :** 2072594.72US ft	**Longitude :** -109°56'55.71"
Cuboid	**TVD (Well TVD Reference) :** 13900.00 US ft		
	Orientation	**Azimuth :** 0.00°	**Inclination :** 0.00°
	Dimensions	**Length :** 1.00 US ft	**Breadth :** 1.00 US ft **Height :** 1.00 US ft

Survey Name :Definitive Survey

Date : 05/Sep/2014 **Survey Tool :** **Comment :** **Company :**

Magnetic Model

Model Name: Default **Date:** 24/Jan/2014 **Field Strength:** 50000.0 nT **Declination:** 0.00° **Dip:** 0.00°

Survey Tool Ranges

Name	Start MD (US ft)	End MD (US ft)	Source Survey
MWD	0.00	3344.00	MWD WFT 12.25 SURVEYS
MWD	3344.00	10009.00	MWD 8.75 WFT SURVEYS

Well path created using minimum curvature

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)

Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)
TIE ON	0.00	0.00	0.00	0.00	0.00	0.00	40°22'20.11"	-109°56'48.13"	0.00	0.00	-0.00	0.00	0.00
BEGIN MWD SURVEYS	860.00	1.67	152.42	859.88	-11.11	5.80	40°22'20.00"	-109°56'48.05"	0.19	152.42	1.76	-12.53	0.00
	953.00	2.01	175.88	952.83	-13.94	6.55	40°22'19.97"	-109°56'48.04"	0.88	77.73	2.81	-14.12	5.92

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Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)													
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' '')	Longitude (° ' '')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)
	1046.00	2.41	215.00	1045.77	-17.16	5.54	40°22'19.94"	-109°56'48.06"	1.64	95.25	5.51	-9.30	14.94
	1139.00	2.17	250.08	1138.70	-19.37	2.77	40°22'19.92"	-109°56'48.09"	1.50	116.94	9.05	-0.50	18.16
	1232.00	1.23	275.24	1231.66	-19.88	0.12	40°22'19.91"	-109°56'48.13"	1.27	153.67	11.50	6.73	15.61
	1325.00	0.77	273.35	1324.64	-19.75	-1.50	40°22'19.92"	-109°56'48.15"	0.50	183.16	12.74	7.30	13.61
	1418.00	1.50	249.75	1417.62	-20.13	-3.27	40°22'19.91"	-109°56'48.17"	0.92	315.19	14.39	3.53	14.02
	1511.00	3.12	234.82	1510.55	-22.01	-6.48	40°22'19.89"	-109°56'48.21"	1.84	332.05	18.10	1.07	14.10
	1605.00	4.11	232.41	1604.36	-25.54	-11.24	40°22'19.86"	-109°56'48.27"	1.07	350.07	24.02	0.36	14.22
	1698.00	5.28	233.93	1697.04	-30.09	-17.34	40°22'19.81"	-109°56'48.35"	1.27	6.83	31.63	-0.38	14.34
	1791.00	5.78	238.24	1789.61	-35.08	-24.78	40°22'19.76"	-109°56'48.45"	0.70	41.87	40.58	-1.03	14.15
	1884.00	5.66	236.97	1882.15	-40.04	-32.61	40°22'19.72"	-109°56'48.55"	0.19	225.90	49.84	-2.62	13.65
	1978.00	5.53	237.84	1975.70	-44.98	-40.33	40°22'19.67"	-109°56'48.65"	0.17	147.31	58.99	-2.75	13.22
	2071.00	5.77	238.83	2068.25	-49.78	-48.12	40°22'19.62"	-109°56'48.75"	0.28	22.60	68.12	-2.19	12.60
	2164.00	6.23	241.53	2160.74	-54.61	-56.56	40°22'19.57"	-109°56'48.86"	0.58	32.88	77.79	-1.12	11.62
	2257.00	7.44	241.80	2253.08	-59.86	-66.30	40°22'19.52"		1.30	1.66	88.77	-1.35	10.23

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Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)													
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' '')	Longitude (° ' '')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)
								-109°56'48.98"					
	2351.00	7.50	241.96	2346.28	-65.62	-77.08	40°22'19.46"	-109°56'49.12"	0.07	19.20	100.88	-2.59	8.79
	2444.00	6.92	241.06	2438.54	-71.18	-87.34	40°22'19.41"	-109°56'49.26"	0.64	190.57	112.46	-3.54	7.37
	2537.00	6.19	240.54	2530.93	-76.36	-96.61	40°22'19.36"	-109°56'49.38"	0.79	184.39	123.01	-3.34	6.10
	2630.00	5.89	241.11	2623.42	-81.13	-105.15	40°22'19.31"	-109°56'49.49"	0.33	168.98	132.73	-2.20	4.89
	2723.00	5.76	243.29	2715.94	-85.54	-113.50	40°22'19.27"	-109°56'49.59"	0.28	121.52	142.08	-0.63	3.45
	2816.00	6.03	242.43	2808.45	-89.89	-121.99	40°22'19.22"	-109°56'49.70"	0.31	341.46	151.53	0.61	1.83
	2909.00	6.33	242.37	2900.91	-94.53	-130.87	40°22'19.18"	-109°56'49.82"	0.32	358.74	161.44	1.44	0.30
	3002.00	6.59	241.91	2993.31	-99.42	-140.12	40°22'19.13"	-109°56'49.94"	0.29	348.51	171.80	1.82	-1.18
	3095.00	6.34	241.86	3085.72	-104.36	-149.35	40°22'19.08"	-109°56'50.06"	0.27	181.27	182.19	2.20	-2.61
	3189.00	5.94	239.10	3179.18	-109.30	-158.10	40°22'19.03"	-109°56'50.17"	0.53	215.06	192.18	3.30	-3.67
	3282.00	5.77	238.61	3271.70	-114.21	-166.22	40°22'18.98"	-109°56'50.27"	0.19	196.14	201.64	4.76	-4.50
	3344.00	6.29	239.35	3333.36	-117.56	-171.81	40°22'18.95"	-109°56'50.35"	0.85	8.87	208.13	5.46	-5.16
	3439.00	6.55	239.56	3427.76	-122.96	-180.95	40°22'18.90"		0.27	5.26	218.71	5.95	-6.18

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Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)													
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' '')	Longitude (° ' '')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)
								-109°56'50.47"					
	3501.00	6.33	238.72	3489.37	-126.53	-186.92	40°22'18.86"	-109°56'50.54"	0.39	202.77	225.64	6.36	-6.70
	3594.00	7.78	239.56	3581.66	-132.38	-196.73	40°22'18.80"	-109°56'50.67"	1.56	4.49	237.02	5.74	-7.72
	3687.00	7.36	239.08	3673.85	-138.63	-207.27	40°22'18.74"	-109°56'50.81"	0.46	188.32	249.22	4.44	-8.63
	3781.00	7.20	240.70	3767.09	-144.61	-217.57	40°22'18.68"	-109°56'50.94"	0.28	128.73	261.08	3.27	-9.80
	3874.00	6.89	237.75	3859.39	-150.44	-227.37	40°22'18.62"	-109°56'51.07"	0.51	227.95	272.44	3.29	-10.58
	3967.00	6.50	235.64	3951.76	-156.38	-236.44	40°22'18.57"	-109°56'51.18"	0.50	211.20	283.27	3.77	-10.91
	4060.00	7.45	240.28	4044.07	-162.34	-246.02	40°22'18.51"	-109°56'51.31"	1.19	32.99	294.53	2.49	-11.88
	4154.00	7.15	240.74	4137.31	-168.22	-256.41	40°22'18.45"	-109°56'51.44"	0.33	169.20	306.40	1.43	-13.08
	4247.00	6.61	241.21	4229.64	-173.63	-266.15	40°22'18.39"	-109°56'51.57"	0.58	174.28	317.47	1.04	-14.36
	4340.00	6.29	238.36	4322.05	-178.88	-275.18	40°22'18.34"	-109°56'51.68"	0.49	223.60	327.86	2.23	-15.32
	4433.00	6.05	235.52	4414.51	-184.33	-283.56	40°22'18.29"	-109°56'51.79"	0.42	230.42	337.85	3.93	-15.68
	4526.00	7.94	232.20	4506.81	-191.04	-292.68	40°22'18.22"	-109°56'51.91"	2.08	346.27	349.17	4.44	-15.30
	4620.00	7.41	236.87	4599.97	-198.33	-302.88	40°22'18.15"		0.87	132.66	361.71	1.69	-15.57

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Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)													
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' '')	Longitude (° ' '')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)
								-109°56'52.04"					
	4713.00	7.19	235.94	4692.22	-204.87	-312.73	40°22'18.09"	-109°56'52.17"	0.27	207.78	373.52	1.06	-15.95
	4806.00	6.91	235.05	4784.52	-211.33	-322.13	40°22'18.02"	-109°56'52.29"	0.32	200.87	384.93	0.82	-16.16
	4899.00	6.57	235.39	4876.87	-217.56	-331.10	40°22'17.96"	-109°56'52.41"	0.37	173.47	395.84	0.75	-16.33
	4992.00	6.63	234.58	4969.26	-223.69	-339.85	40°22'17.90"	-109°56'52.52"	0.12	302.40	406.53	1.23	-16.44
	5085.00	6.64	234.58	5061.63	-229.92	-348.61	40°22'17.84"	-109°56'52.63"	0.01	0.00	417.28	1.43	-16.49
	5179.00	6.56	233.95	5155.01	-236.23	-357.38	40°22'17.78"	-109°56'52.74"	0.11	221.84	428.08	1.87	-16.46
	5272.00	6.51	232.26	5247.41	-242.58	-365.84	40°22'17.71"	-109°56'52.85"	0.21	254.59	438.66	2.70	-16.16
	5365.00	6.46	232.05	5339.81	-249.03	-374.14	40°22'17.65"	-109°56'52.96"	0.06	205.27	449.16	3.19	-15.73
	5458.00	6.19	232.98	5432.24	-255.27	-382.27	40°22'17.59"	-109°56'53.07"	0.31	159.68	459.40	3.63	-15.44
	5551.00	6.60	236.75	5524.67	-261.21	-390.74	40°22'17.53"	-109°56'53.18"	0.63	47.57	469.75	3.20	-15.77
GREEN RIVER (GRRV) :	5626.93	7.75	238.42	5600.00	-266.29	-398.75	40°22'17.48"	-109°56'53.28"	1.54	11.11	479.22	2.17	-16.37
	5644.00	8.01	238.73	5616.91	-267.51	-400.75	40°22'17.47"	-109°56'53.31"	1.54	9.45	481.55	1.74	-16.53
	5737.00	7.40	238.54	5709.07	-274.00	-411.39	40°22'17.40"		0.66	182.30	493.98	0.23	-17.34

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Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)													
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' '')	Longitude (° ' '')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)
								-109°56'53.44"					
	5830.00	6.47	237.80	5801.39	-279.92	-420.94	40°22'17.34"	-109°56'53.57"	1.00	185.12	505.19	0.14	-18.08
	5923.00	5.66	237.07	5893.87	-285.20	-429.22	40°22'17.29"	-109°56'53.67"	0.87	185.08	515.00	1.47	-18.67
	6017.00	5.90	239.31	5987.39	-290.19	-437.27	40°22'17.24"	-109°56'53.78"	0.35	44.35	524.44	2.31	-19.49
	6110.00	7.07	237.62	6079.79	-295.69	-446.21	40°22'17.19"	-109°56'53.89"	1.27	349.89	534.92	3.31	-20.18
	6203.00	6.28	235.11	6172.16	-301.67	-455.22	40°22'17.13"	-109°56'54.01"	0.91	199.03	545.72	4.32	-20.42
	6296.00	6.41	230.42	6264.59	-307.88	-463.39	40°22'17.07"	-109°56'54.11"	0.57	281.74	555.98	6.62	-19.67
	6389.00	6.88	226.43	6356.97	-315.03	-471.43	40°22'17.00"	-109°56'54.22"	0.71	313.52	566.68	8.05	-18.02
	6482.00	7.71	219.56	6449.22	-323.68	-479.44	40°22'16.91"	-109°56'54.32"	1.29	310.13	578.23	8.93	-14.81
	6576.00	7.32	220.89	6542.41	-333.07	-487.37	40°22'16.82"	-109°56'54.42"	0.45	156.62	590.15	7.05	-12.29
	6669.00	6.86	223.13	6634.70	-341.60	-495.05	40°22'16.73"	-109°56'54.52"	0.58	150.10	601.36	5.82	-10.20
	6762.00	6.91	221.89	6727.03	-349.82	-502.58	40°22'16.65"	-109°56'54.62"	0.17	287.98	612.27	5.58	-7.84
	6855.00	5.88	220.59	6819.45	-357.60	-509.41	40°22'16.58"	-109°56'54.71"	1.12	187.36	622.36	6.03	-5.24
	6948.00	5.08	222.06	6912.02	-364.28	-515.27	40°22'16.51"		0.87	170.78	631.02	7.72	-2.95

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Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)													
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								-109°56'54.78"					
	7041.00	4.48	223.58	7004.70	-369.96	-520.53	40°22'16.45"	-109°56'54.85"	0.66	168.84	638.61	10.58	-1.01
GREEN RIVER (GRTN1) :	7048.33	4.50	223.65	7012.00	-370.38	-520.93	40°22'16.45"	-109°56'54.86"	0.30	15.13	639.17	10.82	-0.87
	7135.00	4.75	224.46	7098.39	-375.40	-525.79	40°22'16.40"	-109°56'54.92"	0.30	15.06	646.05	12.71	0.57
	7228.00	4.70	221.98	7191.08	-380.98	-531.04	40°22'16.35"	-109°56'54.99"	0.23	255.01	653.56	13.05	2.71
	7321.00	4.28	222.20	7283.79	-386.38	-535.92	40°22'16.29"	-109°56'55.05"	0.45	177.76	660.68	12.34	4.09
	7414.00	3.34	222.21	7376.58	-390.96	-540.07	40°22'16.25"	-109°56'55.11"	1.01	179.96	666.72	11.25	5.19
	7507.00	1.92	175.96	7469.49	-394.52	-541.78	40°22'16.21"	-109°56'55.13"	2.63	214.59	670.19	2.54	12.89
	7600.00	1.65	158.22	7562.45	-397.32	-541.17	40°22'16.18"	-109°56'55.12"	0.66	235.27	671.33	-3.81	14.69
MAHOGANY BENCH :	7688.59	1.50	154.31	7651.00	-399.55	-540.20	40°22'16.16"	-109°56'55.11"	0.21	213.46	671.83	-7.12	14.98
	7694.00	1.49	154.05	7656.41	-399.68	-540.13	40°22'16.16"	-109°56'55.11"	0.21	217.36	671.86	-7.33	14.94
	7787.00	1.36	161.09	7749.38	-401.81	-539.25	40°22'16.14"	-109°56'55.09"	0.23	130.08	672.38	-7.75	15.88
	7880.00	1.49	161.81	7842.36	-404.00	-538.51	40°22'16.12"	-109°56'55.09"	0.14	8.20	673.06	-9.86	15.99
	7973.00	1.42	144.63	7935.33	-406.09	-537.47	40°22'16.10"		0.47	252.36	673.43	-16.45	12.00

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Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)													
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' '')	Longitude (° ' '')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)
								-109°56'55.07"					
	8066.00	1.60	124.90	8028.29	-407.77	-535.74	40°22'16.08"	-109°56'55.05"	0.59	279.06	673.00	-21.91	5.35
	8159.00	1.90	122.51	8121.25	-409.34	-533.37	40°22'16.07"	-109°56'55.02"	0.33	345.13	672.00	-24.95	4.38
	8253.00	1.72	115.53	8215.20	-410.79	-530.78	40°22'16.05"	-109°56'54.99"	0.30	227.32	670.74	-28.26	1.13
	8346.00	1.72	114.74	8308.16	-411.97	-528.26	40°22'16.04"	-109°56'54.95"	0.03	269.61	669.38	-31.06	0.72
	8439.00	1.63	108.83	8401.12	-412.98	-525.74	40°22'16.03"	-109°56'54.92"	0.21	239.55	667.92	-33.68	-2.63
	8532.00	1.57	109.08	8494.09	-413.83	-523.28	40°22'16.02"	-109°56'54.89"	0.06	173.49	666.42	-36.29	-2.48
	8625.00	1.45	107.46	8587.05	-414.60	-520.96	40°22'16.01"	-109°56'54.86"	0.14	198.77	664.98	-38.66	-3.54
	8718.00	1.75	105.98	8680.02	-415.34	-518.47	40°22'16.01"	-109°56'54.83"	0.33	351.42	663.39	-41.14	-4.57
	8811.00	1.74	112.15	8772.97	-416.27	-515.79	40°22'16.00"	-109°56'54.79"	0.20	96.13	661.76	-44.22	0.04
	8904.00	1.46	116.56	8865.94	-417.33	-513.43	40°22'15.99"	-109°56'54.76"	0.33	158.46	660.45	-46.68	3.55
LOWER GREEN RIVER (TGR3) :	8938.07	1.33	117.39	8900.00	-417.70	-512.69	40°22'15.98"	-109°56'54.75"	0.38	171.44	660.07	-47.46	4.23
	8997.00	1.11	119.29	8958.91	-418.30	-511.58	40°22'15.98"	-109°56'54.74"	0.38	170.61	659.52	-48.55	5.82

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Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)

Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' '')	Longitude (° ' '')	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	High to Plan (US ft)	Right to Plan (US ft)
	9090.00	1.26	130.36	9051.89	-419.40	-510.02	40°22'15.97"	-109°56'54.72"	0.29	62.38	658.89	-48.43	15.21
	9183.00	1.30	133.19	9144.87	-420.78	-508.47	40°22'15.95"	-109°56'54.70"	0.08	59.10	658.44	-49.70	17.63
	9276.00	1.75	126.24	9237.84	-422.35	-506.55	40°22'15.94"	-109°56'54.67"	0.52	334.16	657.80	-53.92	11.36
	9369.00	1.82	123.27	9330.79	-424.00	-504.17	40°22'15.92"	-109°56'54.64"	0.12	305.62	656.82	-57.33	8.48
	9462.00	1.67	128.47	9423.75	-425.65	-501.88	40°22'15.90"	-109°56'54.61"	0.23	136.03	655.92	-59.15	13.78
	9555.00	1.33	120.71	9516.72	-427.04	-499.89	40°22'15.89"	-109°56'54.59"	0.43	207.02	655.12	-62.90	5.48
	9659.00	1.14	126.49	9620.69	-428.27	-498.02	40°22'15.88"	-109°56'54.56"	0.22	149.62	654.32	-64.27	11.91
	9752.00	1.16	131.02	9713.68	-429.44	-496.57	40°22'15.87"	-109°56'54.54"	0.10	79.86	653.82	-64.99	17.02
	9846.00	1.26	138.68	9807.65	-430.84	-495.17	40°22'15.85"	-109°56'54.53"	0.20	62.14	653.50	-64.12	25.66
WASATCH (W090TU2) :	9924.36	1.23	143.51	9886.00	-432.17	-494.10	40°22'15.84"	-109°56'54.51"	0.14	107.83	653.40	-63.43	31.04
LAST MWD SURVEYS	10009.00	1.21	148.95	9970.62	-433.66	-493.09	40°22'15.83"	-109°56'54.50"	0.14	103.00	653.46	-62.00	37.00

Formation Points (Relative to Slot centre, TVD relative to Well TVD Reference)

Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	F.Dip (°)	F.Dir (°)
GREEN RIVER (GRRV)	5626.93	7.75	238.42	5600.00	-266.29	-398.75	0	0

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Formation Points (Relative to Slot centre, TVD relative to Well TVD Reference)								
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	F.Dip (°)	F.Dir (°)
GREEN RIVER (GRTN1)	7048.33	4.50	223.65	7012.00	-370.38	-520.93	0	0
MAHOGANY BENCH	7688.59	1.50	154.31	7651.00	-399.55	-540.20	0	0
LOWER GREEN RIVER (TGR3)	8938.07	1.33	117.39	8900.00	-417.70	-512.69	0	0
WASATCH (W090TU2)	9924.36	1.23	143.51	9886.00	-432.17	-494.10	0	0

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DAILY ACTIVITIES

RECEIVED: Jan. 06, 2017

Weatherford

Daily Activity Report

Day 1 - 2014/11/29

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Mickey Miller
DIR Supervisor: Leon Castello

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 0.0 ft
END DEPTH: 0.0 ft
PROGRESS: 0.0 ft
AVG. ROP.: 0.0 ft/hr
DAILY COST: USD$16300.00
PREVIOUS COST: USD$0.00
TOTAL COST: USD$16300.00

WORK STATUS: Standby *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-12:00	Standby	12.00	0	n/a			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	0.00	**ORIENTING HRS:**	0.00	**ROTARY DRILL:**	0.00		
TIME DRILL:	0.00	**ROTATING HRS:**	0.00	**MOTOR HRS:**	0.00		
MOTOR REAM:	0.00			**TRIP:**	0.00		
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	12.00		
MOTOR HRS:	0.00	**DRILL HRS:**	0.00	**TOTAL HRS:**	12.00		

DRILLING PARAMETERS:

ROTARY TORQUE:		**STRING WEIGHT**	0 lbs
WOB SLIDING (HI):	0 lbf	**WOB ROTATE (HI):**	0 lbf
WOB SLIDING (LO):	0 lbf	**WOB ROTATE (LO):**	0 lbf
RPM (ROTARY):		**DRAG UP:**	0 lbf
RPM (MOTOR):		**DRAG DN:**	0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA:
HOLE SIZE:
SECTION TYPE:
SURVEY TYPE:
MANFCT.:
STABILIZER:
SERIAL#:
MODEL:
LOBE CFG.:
SETTING:
KICKPAD:
SIZE:
MTR HRS THIS DAY:
MTR HRS TO DATE:
MANFCT:
BIT TYPE:
TYPE:
NOZZLES:
IADC BIT GRADE:

PUMP PARAMETERS

PRESSURE ON BTM: 0
PRESSURE OFF BTM: 0
TOTAL FLOW RATE: 0.00 gal/min

PUMP 1:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 2:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 3:	**TYPE:**	**EFF.:** 100.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE:
VISC: 0 sec/qt
WTR LOSS: 0 cc/30min
PV: 0 cP
YP: 0 lb/100 ft²
pH: 0
DENSITY: 0 lb/gal
GEL 0/10: 0.00 lb/100 ft²
SAND: 0
SOLIDS: 0
OIL: 0
TEMP: 0 °F
LIQUID BASE:
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

Travel to job, Strap tools,
wait on rig

CUSTOMER SIGNATURE: _____

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Weatherford

Daily Activity Report

Day 2 - 2014/11/30

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Mickey Miller
DIR Supervisor: Leon Castello
MWD Supervisor: Rodney Gaines

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 0.0 ft
END DEPTH: 0.0 ft
PROGRESS: 0.0 ft
AVG. ROP.: 0.0 ft/hr
DAILY COST: USD$6550.00
PREVIOUS COST: USD$16300.00
TOTAL COST: USD$22850.00

WORK STATUS: Standby *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-24:00	Standby	24.00	0	n/a			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	0.00	**ORIENTING HRS:**	0.00	**ROTARY DRILL:**	0.00
TIME DRILL:	0.00	**ROTATING HRS:**	0.00	**MOTOR HRS:**	0.00
MOTOR REAM:	0.00			**TRIP:**	0.00
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	24.00
MOTOR HRS:	0.00	**DRILL HRS:**	0.00	**TOTAL HRS:**	24.00

DRILLING PARAMETERS:

ROTARY TORQUE:		**STRING WEIGHT**	0 lbs
WOB SLIDING (HI):	0 lbf	**WOB ROTATE (HI):**	0 lbf
WOB SLIDING (LO):	0 lbf	**WOB ROTATE (LO):**	0 lbf
RPM (ROTARY):		**DRAG UP:**	0 lbf
RPM (MOTOR):		**DRAG DN:**	0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA:
HOLE SIZE:
SECTION TYPE:
SURVEY TYPE:
MANFCT.:
STABILIZER:
SERIAL#:
MODEL:
LOBE CFG.:
SETTING:
KICKPAD:
SIZE:
MTR HRS THIS DAY:
MTR HRS TO DATE:
MANFCT:
BIT TYPE:
TYPE:
NOZZLES:
IADC BIT GRADE:

PUMP PARAMETERS

PRESSURE ON BTM: 0
PRESSURE OFF BTM: 0
TOTAL FLOW RATE: 0.00 gal/min

PUMP 1:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 2:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 3:	**TYPE:**	**EFF.:** 100.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE:
VISC: 0 sec/qt
WTR LOSS: 0 cc/30min
PV: 0 cP
YP: 0 lb/100 ft²
pH: 0
DENSITY: 0 lb/gal
GEL 0/10: 0.00 lb/100 ft²
SAND: 0
SOLIDS: 0
OIL: 0
TEMP: 0 °F
LIQUID BASE:
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

Standby
wait on rig

CUSTOMER SIGNATURE:

RECEIVED: Jan. 06, 2017

Daily Activity Report

Drilling Services
v4.2.2674

Day 3 - 2014/12/01

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Supervisor: Leon Castello
MWD Supervisor: Rodney Gaines
DIR Trainee: Mickey Miller , Jorge Granados

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 0.0 ft
END DEPTH: 1733.0 ft
PROGRESS: 1733.0 ft
AVG. ROP.: 153.0 ft/hr
DAILY COST: USD$17605.00
PREVIOUS COST: USD$22850.00
TOTAL COST: USD$40455.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-02:15	Handle Directional Tools	2.25	0	1	17:35-17:45	Rotating With Motor	0.17	1220	1
02:15-04:00	RIH With New BHA	1.75	807	1	17:45-18:00	Orienting With Motor	0.25	1240	1
04:00-10:00	Rig Repair	6.00	807	1	18:00-18:35	Rotating With Motor	0.58	1303	1
10:00-12:15	Rotating With Motor	2.25	931	1	18:35-18:40	EM MWD Surveys	0.08	1303	1
12:15-12:25	EM MWD Surveys	0.17	931	1	18:40-19:35	Rotating With Motor	0.92	1396	1
12:25-12:50	Work on Pumps	0.42	931	1	19:35-19:45	EM MWD Surveys	0.17	1396	1
12:50-13:25	Orienting With Motor	0.58	951	1	19:45-20:15	Orienting With Motor	0.50	1421	1
13:25-13:55	Rotating With Motor	0.50	1024	1	20:15-20:45	Rotating With Motor	0.50	1489	1
13:55-14:00	EM MWD Surveys	0.08	1024	1	20:45-20:55	EM MWD Surveys	0.17	1489	1
14:00-14:28	Orienting With Motor	0.47	1054	1	20:55-21:30	Orienting With Motor	0.58	1519	1
14:28-15:10	Rotating With Motor	0.70	1117	1	21:30-22:00	Rotating With Motor	0.50	1582	1
15:10-15:15	EM MWD Surveys	0.08	1117	1	22:00-22:05	EM MWD Surveys	0.08	1582	1
15:15-15:45	Orienting With Motor	0.50	1152	1	22:05-22:25	Orienting With Motor	0.33	1597	1
15:45-16:15	Rotating With Motor	0.50	1210	1	22:25-23:10	Rotating With Motor	0.75	1676	1
16:15-16:35	Rig Service	0.33	1210	1	23:10-23:15	EM MWD Surveys	0.08	1676	1
16:35-16:40	EM MWD Surveys	0.08	1210	1	23:15-23:35	Orienting With Motor	0.33	1691	1
16:40-17:35	Work on Pumps	0.92	1210	1	23:35-24:00	Rotating With Motor	0.42	1733	1

TIME SUMMARY (hrs):

MOTOR DRILL:	11.33	**ORIENTING HRS:**	3.55	**ROTARY DRILL:**	0.00
TIME DRILL:	0.00	**ROTATING HRS:**	7.78	**MOTOR HRS:**	11.33
MOTOR REAM:	0.00			**TRIP:**	1.75
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	10.92
MOTOR HRS:	11.33	**DRILL HRS:**	11.33	**TOTAL HRS:**	24.00

DRILLING PARAMETERS:

ROTARY TORQUE:	4300 ft-lb	**STRING WEIGHT**	93000 lbs
WOB SLIDING (HI):	15000 lbf	**WOB ROTATE (HI):**	20000 lbf
WOB SLIDING (LO):	8000 lbf	**WOB ROTATE (LO):**	14000 lbf
RPM (ROTARY):	80 rpm	**DRAG UP:**	95000 lbf
RPM (MOTOR):		**DRAG DN:**	88000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 1
HOLE SIZE: 12.25 in
SECTION TYPE: Surface
SURVEY TYPE: Electromagnetic MWD
MANFCT.: Hunting
STABILIZER: No
SERIAL#: WC-58258-001
MODEL:
LOBE CFG.: 7/8 4
SETTING: 1.5 °
KICKPAD: No
SIZE: 8" (203mm)
MTR HRS THIS DAY: 11.33333333333
MTR HRS TO DATE: 11.33333333333
MANFCT: Baker
BIT TYPE: PDC Bit
TYPE: DP506FX
NOZZLES: 0.902 in² TFA
IADC BIT GRADE: 2 / 2 / CT / G / X / I / CT / TD

PUMP PARAMETERS

PRESSURE ON BTM: 2100
PRESSURE OFF BTM: 1700
TOTAL FLOW RATE: 663.94 gal/min

PUMP 1:	**TYPE:**	1000	**EFF.:**	95.0%	**SPM:**	100.00	**LINER:**	6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 2:	**TYPE:**	1000	**EFF.:**	95.0%	**SPM:**	100.00	**LINER:**	6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 3:	**TYPE:**		**EFF.:**	100.0%	**SPM:**	0.00	**LINER:**	0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 54 sec/qt
WTR LOSS: 5.2 cc/30min
PV: 13 cP
YP: 15 lb/100 ft²
pH: 10.1
DENSITY: 10.8 lb/gal
GEL 0/10: 3.00 lb/100 ft²
SAND: 0.75
SOLIDS: 11.2
OIL: 0
TEMP: 98 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

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Daily Activity Report

Drilling Services
v4.2.2674

Day 3 - 2014/12/01

COMMENTS:

Picked up tools around 2:00am, but we did not start drilling till noon due to rig issues. The Build is going well and we are drilling ahead with no problems.

Drill F/ 817' T/1733'

CUSTOMER SIGNATURE: _____

RECEIVED: Jan. 06, 2017

Weatherford

Daily Activity Report

Day 4 - 2014/12/02

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Rodney Gaines

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 1733.0 ft
END DEPTH: 3172.0 ft
PROGRESS: 1439.0 ft
AVG. ROP.: 67.2 ft/hr
DAILY COST: USD$11155.00
PREVIOUS COST: USD$40455.00
TOTAL COST: USD$51610.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-00:20	Rotating With Motor	0.33	1769	1	09:20-09:25	EM MWD Surveys	0.08	2422	1
00:20-00:25	EM MWD Surveys	0.08	1769	1	09:25-09:55	Orienting With Motor	0.50	2437	1
00:25-00:45	Orienting With Motor	0.33	1784	1	09:55-10:45	Rotating With Motor	0.83	2515	1
00:45-01:20	Rotating With Motor	0.58	1862	1	10:45-10:50	EM MWD Surveys	0.08	2515	1
01:20-01:25	EM MWD Surveys	0.08	1862	1	10:50-11:20	Orienting With Motor	0.50	2530	1
01:25-01:40	Rig Service	0.25	1862	1	11:20-12:20	Rotating With Motor	1.00	2608	1
01:40-02:30	Rotating With Motor	0.83	1955	1	12:20-12:25	EM MWD Surveys	0.08	2608	1
02:30-02:35	EM MWD Surveys	0.08	1955	1	12:25-13:45	Rotating With Motor	1.33	2701	1
02:35-03:30	Rotating With Motor	0.92	2049	1	13:45-14:00	EM MWD Surveys	0.25	2701	1
03:30-03:35	EM MWD Surveys	0.08	2049	1	14:00-15:45	Rotating With Motor	1.75	2794	1
03:35-03:55	Orienting With Motor	0.33	2064	1	15:45-15:50	EM MWD Surveys	0.08	2794	1
03:55-04:40	Rotating With Motor	0.75	2142	1	15:50-17:20	Rotating With Motor	1.50	2887	1
04:40-04:45	EM MWD Surveys	0.08	2142	1	17:20-17:25	EM MWD Surveys	0.08	2887	1
04:45-05:10	Orienting With Motor	0.42	2162	1	17:25-18:55	Rotating With Motor	1.50	2980	1
05:10-05:30	Rotating With Motor	0.33	2189	1	18:55-19:00	EM MWD Surveys	0.08	2980	1
05:30-06:20	Work on Pumps	0.83	2189	1	19:00-20:45	Rotating With Motor	1.75	3073	1
06:20-06:45	Rotating With Motor	0.42	2235	1	20:45-20:50	EM MWD Surveys	0.08	3073	1
06:45-06:50	EM MWD Surveys	0.08	2235	1	20:50-21:45	Orienting With Motor	0.92	3088	1
06:50-07:20	Orienting With Motor	0.50	2255	1	21:45-23:10	Rotating With Motor	1.42	3166	1
07:20-08:00	Rotating With Motor	0.67	2328	1	23:10-23:15	EM MWD Surveys	0.08	3166	1
08:00-08:05	EM MWD Surveys	0.08	2328	1	23:15-24:00	Orienting With Motor	0.75	3172	1
08:05-09:20	Rotating With Motor	1.25	2422	1			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	21.42	**ORIENTING HRS:**	4.25	**ROTARY DRILL:**	0.00		
TIME DRILL:	0.00	**ROTATING HRS:**	17.17	**MOTOR HRS:**	21.42		
MOTOR REAM:	0.00			**TRIP:**	0.00		
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	2.58		
MOTOR HRS:	21.42	**DRILL HRS:**	21.42	**TOTAL HRS:**	24.00		

DRILLING PARAMETERS:

ROTARY TORQUE:	6500 ft-lb	**STRING WEIGHT**	120000 lbs
WOB SLIDING (HI):	25000 lbf	**WOB ROTATE (HI):**	29000 lbf
WOB SLIDING (LO):	20000 lbf	**WOB ROTATE (LO):**	25000 lbf
RPM (ROTARY):	85 rpm	**DRAG UP:**	125000 lbf
RPM (MOTOR):	119 rpm	**DRAG DN:**	110000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 1
HOLE SIZE: 12.25 in
SECTION TYPE: Surface
SURVEY TYPE: Electromagnetic MWD
MANFCT.: Hunting
STABILIZER: No
SERIAL#: WC-58258-001
MODEL:
LOBE CFG.: 7/8 4
SETTING: 1.5 °
KICKPAD: No
SIZE: 8" (203mm)
MTR HRS THIS DAY: 21.4166666666667
MTR HRS TO DATE: 32.75
MANFCT: Baker
BIT TYPE: PDC Bit
TYPE: DP506FX
NOZZLES: 0.902 in² TFA
IADC BIT GRADE: 2 / 2 / CT / G / X / I / CT / TD

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Daily Activity Report

Drilling Services
v4.2.2674

Day 4 - 2014/12/02

PUMP PARAMETERS

PRESSURE ON BTM: 2400 **PRESSURE OFF BTM:** 2100 **TOTAL FLOW RATE:** 663.94 gal/min

PUMP 1:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 100.00	**LINER:** 6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 2:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 100.00	**LINER:** 6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 3:	**TYPE:**	**EFF.:** 100.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T **VISC:** 11 sec/qt **WTR LOSS:** 0.2 cc/30min **PV:** 13 cP **YP:** 15 lb/100 ft² **pH:** 10.1
DENSITY: 10.8 lb/gal **GEL 0/10:** 3.00 lb/100 ft² **SAND:** 0.75 **SOLIDS:** 11.2 **OIL:** 0 **TEMP:** 113 °F
LIQUID BASE: Water **LIQUID RATE:** 0 gal/min **GAS TYPE:** **GAS RATE:** 0 cu ft/min

COMMENTS:

Drill F/ 1733' T/3172'
Rotate & Slide as needed.

CUSTOMER SIGNATURE: _____

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Daily Activity Report

Day 5 - 2014/12/03

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Rodney Gaines

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 3172.0 ft
END DEPTH: 3415.0 ft
PROGRESS: 243.0 ft
AVG. ROP.: 27.5 ft/hr
DAILY COST: USD$11155.00
PREVIOUS COST: USD$51610.00
TOTAL COST: USD$62765.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-00:30	Orienting With Motor	0.50	3186	1	07:35-09:00	Rotating With Motor	1.42	3415	1
00:30-01:55	Rotating With Motor	1.42	3260	1	09:00-09:10	EM MWD Surveys	0.17	3415	1
01:55-02:00	EM MWD Surveys	0.08	3260	1	09:10-10:30	Circulating	1.33	3415	1
02:00-06:40	Rotating With Motor	4.67	3353	1	10:30-22:30	POOH For Directional	12.00	3415	1
06:40-06:45	EM MWD Surveys	0.08	3353	1	22:30-24:00	Lay Down Directional Tools	1.50	3415	1
06:45-07:35	Orienting With Motor	0.83	3368	1			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	8.83	**ORIENTING HRS:**	1.33	**ROTARY DRILL:**	0.00		
TIME DRILL:	0.00	**ROTATING HRS:**	7.50	**MOTOR HRS:**	10.17		
MOTOR REAM:	0.00			**TRIP:**	12.00		
CIRC:	1.33	**ROTARY DRILL:**	0.00	**OTHER:**	1.83		
MOTOR HRS:	10.17	**DRILL HRS:**	8.83	**TOTAL HRS:**	24.00		

DRILLING PARAMETERS:

ROTARY TORQUE:	9000 ft-lb	**STRING WEIGHT**	125000 lbs
WOB SLIDING (HI):	31000 lbf	**WOB ROTATE (HI):**	31000 lbf
WOB SLIDING (LO):	20000 lbf	**WOB ROTATE (LO):**	25000 lbf
RPM (ROTARY):	85 rpm	**DRAG UP:**	127000 lbf
RPM (MOTOR):	119 rpm	**DRAG DN:**	112000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 1
HOLE SIZE: 12.25 in
SECTION TYPE: Surface
SURVEY TYPE: Electromagnetic MWD
MANFCT.: Hunting
STABILIZER: No
SERIAL#: WC-58258-001
MODEL:
LOBE CFG.: 7/8 4
SETTING: 1.5 °
KICKPAD: No
SIZE: 8" (203mm)
MTR HRS THIS DAY: 10.16666666666
MTR HRS TO DATE: 42.91666666666
MANFCT: Baker
BIT TYPE: PDC Bit
TYPE: DP506FX
NOZZLES: 0.902 in² TFA
IADC BIT GRADE: 2 / 2 / CT / G / X / I / CT / TD

PUMP PARAMETERS

PRESSURE ON BTM: 2700
PRESSURE OFF BTM: 2500
TOTAL FLOW RATE: 663.94 gal/min

PUMP 1:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 100.00	**LINER:** 6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 2:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 100.00	**LINER:** 6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 3:	**TYPE:**	**EFF.:** 100.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 55 sec/qt
WTR LOSS: 6 cc/30min
PV: 13 cP
YP: 15 lb/100 ft²
pH: 22
DENSITY: 10.8 lb/gal
GEL 0/10: 20.00 lb/100 ft²
SAND: 0.5
SOLIDS: 11.7
OIL: 0
TEMP: 104 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

We TD'd surface at 3415'. Pulled extremely tight due to heavy clay in formation. After laying directional tools down the plan was to run back in hole and wiper trip to condition hole before running casing.

CUSTOMER SIGNATURE: _____

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Daily Activity Report

Day 6 - 2014/12/04

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Rodney Gaines, Clint Greene

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 3415.0 ft
END DEPTH: 3415.0 ft
PROGRESS: 0.0 ft
AVG. ROP.: 0.0 ft/hr
DAILY COST: USD$6550.00
PREVIOUS COST: USD$62765.00
TOTAL COST: USD$69315.00

WORK STATUS: Standby *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-12:00	Wiper Trip	12.00	3415	1	15:00-24:00	Run Casing	9.00	3415	1
12:00-15:00	POOH To Run Casing	3.00	3415	1			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	0.00	**ORIENTING HRS:**	0.00	**ROTARY DRILL:**	0.00
TIME DRILL:	0.00	**ROTATING HRS:**	0.00	**MOTOR HRS:**	0.00
MOTOR REAM:	0.00			**TRIP:**	15.00
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	9.00
MOTOR HRS:	0.00	**DRILL HRS:**	0.00	**TOTAL HRS:**	24.00

DRILLING PARAMETERS:

ROTARY TORQUE:		**STRING WEIGHT**	0 lbs
WOB SLIDING (HI):	0 lbf	**WOB ROTATE (HI):**	0 lbf
WOB SLIDING (LO):	0 lbf	**WOB ROTATE (LO):**	0 lbf
RPM (ROTARY):		**DRAG UP:**	0 lbf
RPM (MOTOR):		**DRAG DN:**	0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 1
HOLE SIZE: 12.25 in
SECTION TYPE: Surface
SURVEY TYPE: Electromagnetic MWD
MANFCT.: Hunting
STABILIZER: No
SERIAL#: WC-58258-001
MODEL:
LOBE CFG.: 7/8 4
SETTING: 1.5 °
KICKPAD: No
SIZE: 8" (203mm)
MTR HRS THIS DAY: 0
MTR HRS TO DATE: 42.91666666666
MANFCT: Baker
BIT TYPE: PDC Bit
TYPE: DP506FX
NOZZLES: 0.902 in² TFA
IADC BIT GRADE: 2 / 2 / CT / G / X / I / CT / TD

PUMP PARAMETERS

PRESSURE ON BTM: 0
PRESSURE OFF BTM: 0
TOTAL FLOW RATE: 0.00 gal/min

PUMP 1:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 2:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 3:	**TYPE:**	**EFF.:** 100.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 55 sec/qt
WTR LOSS: 6 cc/30min
PV: 13 cP
YP: 15 lb/100 ft²
pH: 10.1
DENSITY: 10.08 lb/gal
GEL 0/10: 20.00 lb/100 ft²
SAND: 0.5
SOLIDS: 11.7
OIL: 0
TEMP: 104 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

Standby

CUSTOMER SIGNATURE: _____

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Daily Activity Report

Day 7 - 2014/12/05

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Clint Greene

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 3415.0 ft
END DEPTH: 3415.0 ft
PROGRESS: 0.0 ft
AVG. ROP.: 0.0 ft/hr
DAILY COST: USD$6550.00
PREVIOUS COST: USD$69315.00
TOTAL COST: USD$75865.00

WORK STATUS: Standby *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-05:00	Cement Casing	5.00	3415	n/a			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	0.00	**ORIENTING HRS:**	0.00	**ROTARY DRILL:**	0.00
TIME DRILL:	0.00	**ROTATING HRS:**	0.00	**MOTOR HRS:**	0.00
MOTOR REAM:	0.00			**TRIP:**	0.00
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	5.00
MOTOR HRS:	0.00	**DRILL HRS:**	0.00	**TOTAL HRS:**	5.00

DRILLING PARAMETERS:

ROTARY TORQUE:		**STRING WEIGHT**	0 lbs
WOB SLIDING (HI):	0 lbf	**WOB ROTATE (HI):**	0 lbf
WOB SLIDING (LO):	0 lbf	**WOB ROTATE (LO):**	0 lbf
RPM (ROTARY):		**DRAG UP:**	0 lbf
RPM (MOTOR):		**DRAG DN:**	0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA:
HOLE SIZE:
SECTION TYPE:
SURVEY TYPE:
MANFCT.:
STABILIZER:
SERIAL#:
MODEL:
LOBE CFG.:
SETTING:
KICKPAD:
SIZE:
MTR HRS THIS DAY:
MTR HRS TO DATE:
MANFCT:
BIT TYPE:
TYPE:
NOZZLES:
IADC BIT GRADE:

PUMP PARAMETERS

PRESSURE ON BTM: 0
PRESSURE OFF BTM: 0
TOTAL FLOW RATE: 0.00 gal/min

PUMP 1:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 2:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 3:	**TYPE:**	**EFF.:** 100.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T **VISC:** 45 sec/qt **WTR LOSS:** 6 cc/30min **PV:** 15 cP **YP:** 11 lb/100 ft² **pH:** 10.2
DENSITY: 10.8 lb/gal **GEL 0/10:** 5.00 lb/100 ft² **SAND:** 0.5 **SOLIDS:** 11.7 **OIL:** 0 **TEMP:** 98 °F
LIQUID BASE: Water **LIQUID RATE:** 0 gal/min **GAS TYPE:** **GAS RATE:** 0 cu ft/min

COMMENTS:

Standby

CUSTOMER SIGNATURE:

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Daily Activity Report

Day 8 - 2014/12/06

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Clint Greene

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 3415.0 ft
END DEPTH: 3415.0 ft
PROGRESS: 0.0 ft
AVG. ROP.: 0.0 ft/hr
DAILY COST: USD$17605.00
PREVIOUS COST: USD$75865.00
TOTAL COST: USD$93470.00

WORK STATUS: Standby *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-21:00	Standby	21.00	3415	2	22:40-24:00	RIH With Directional	1.33	3415	2
21:00-22:40	Handle Directional Tools	1.67	3415	2			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	0.00	**ORIENTING HRS:**	0.00	**ROTARY DRILL:**	0.00
TIME DRILL:	0.00	**ROTATING HRS:**	0.00	**MOTOR HRS:**	0.00
MOTOR REAM:	0.00			**TRIP:**	1.33
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	22.67
MOTOR HRS:	0.00	**DRILL HRS:**	0.00	**TOTAL HRS:**	24.00

DRILLING PARAMETERS:

ROTARY TORQUE:		**STRING WEIGHT**	0 lbs
WOB SLIDING (HI):	0 lbf	**WOB ROTATE (HI):**	0 lbf
WOB SLIDING (LO):	0 lbf	**WOB ROTATE (LO):**	0 lbf
RPM (ROTARY):		**DRAG UP:**	0 lbf
RPM (MOTOR):		**DRAG DN:**	0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 2
HOLE SIZE: 8.75 in
SECTION TYPE: Intermediate
SURVEY TYPE: Electromagnetic MWD
MANFCT.: Weatherford
STABILIZER: No
SERIAL#: 675-3642
MODEL: 7857
LOBE CFG.: 7/8
SETTING: 1.5 °
KICKPAD: No
SIZE: 6 3/4" (171mm)
MTR HRS THIS DAY: 0
MTR HRS TO DATE: 0
MANFCT: Security
BIT TYPE: PDC Bit
TYPE: MM64D
NOZZLES: 0.778 in² TFA
IADC BIT GRADE: 2 / 3 / RG / G / X / 1 / CT / PR

PUMP PARAMETERS

PRESSURE ON BTM: 0
PRESSURE OFF BTM: 0
TOTAL FLOW RATE: 0.00 gal/min

PUMP 1:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 2:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 3:	**TYPE:**	**EFF.:** 100.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 0 sec/qt
WTR LOSS: 0 cc/30min
PV: 0 cP
YP: 0 lb/100 ft²
pH: 0
DENSITY: 0 lb/gal
GEL 0/10: 0.00 lb/100 ft²
SAND: 0
SOLIDS: 0
OIL: 0
TEMP: 0 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

Standby, Picked up BHA 2, RIH.

CUSTOMER SIGNATURE: _____

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Daily Activity Report

Drilling Services
v4.2.2674

Day 9 - 2014/12/07

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Clint Greene

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 3415.0 ft
END DEPTH: 4780.0 ft
PROGRESS: 1365.0 ft
AVG. ROP.: 83.6 ft/hr
DAILY COST: USD$11155.00
PREVIOUS COST: USD$93470.00
TOTAL COST: USD$104625.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-03:30	RIH With Directional	3.50	3415	2	12:30-13:15	Orienting With Motor	0.75	4046	2
03:30-04:00	Drill Out Flt, Shoe & Cmnt	0.50	3415	2	13:15-14:00	Rotating With Motor	0.75	4124	2
04:00-05:00	Other - See Comments - FIT Test	1.00	3415	2	14:00-14:10	EM MWD Surveys	0.17	4124	2
05:00-05:20	Rotating With Motor	0.33	3503	2	14:10-14:55	Rotating With Motor	0.75	4218	2
05:20-05:25	EM MWD Surveys	0.08	3503	2	14:55-15:00	EM MWD Surveys	0.08	4218	2
05:25-06:00	Rotating With Motor	0.58	3565	2	15:00-16:00	Rotating With Motor	1.00	4311	2
06:00-06:05	EM MWD Surveys	0.08	3565	2	16:00-16:05	EM MWD Surveys	0.08	4311	2
06:05-06:55	Orienting With Motor	0.83	3580	2	16:05-17:00	Rotating With Motor	0.92	4404	2
06:55-07:30	Rotating With Motor	0.58	3658	2	17:00-17:05	EM MWD Surveys	0.08	4404	2
07:30-07:35	EM MWD Surveys	0.08	3658	2	17:05-18:05	Rotating With Motor	1.00	4497	2
07:35-08:35	Rotating With Motor	1.00	3751	2	18:05-18:20	EM MWD Surveys	0.25	4497	2
08:35-08:40	EM MWD Surveys	0.08	3751	2	18:20-18:50	Orienting With Motor	0.50	4515	2
08:40-09:25	Rotating With Motor	0.75	3845	2	18:50-19:25	Rotating With Motor	0.58	4590	2
09:25-09:30	EM MWD Surveys	0.08	3845	2	19:25-19:30	EM MWD Surveys	0.08	4590	2
09:30-10:10	Rotating With Motor	0.67	3938	2	19:30-22:30	Rotating With Motor	3.00	4684	2
10:10-10:20	EM MWD Surveys	0.17	3938	2	22:30-22:35	EM MWD Surveys	0.08	4684	2
10:20-11:20	Rotating With Motor	1.00	4031	2	22:35-23:40	Rotating With Motor	1.08	4777	2
11:20-12:25	Rig Service	1.08	4031	2	23:40-23:45	EM MWD Surveys	0.08	4777	2
12:25-12:30	EM MWD Surveys	0.08	4031	2	23:45-24:00	Rotating With Motor	0.25	4780	2

TIME SUMMARY (hrs):

MOTOR DRILL:	16.33	**ORIENTING HRS:**	2.08	**ROTARY DRILL:**	0.00		
TIME DRILL:	0.00	**ROTATING HRS:**	14.25	**MOTOR HRS:**	16.83		
MOTOR REAM:	0.00			**TRIP:**	3.50		
CIRC:	0.50	**ROTARY DRILL:**	0.00	**OTHER:**	3.67		
MOTOR HRS:	16.83	**DRILL HRS:**	16.33	**TOTAL HRS:**	24.00		

DRILLING PARAMETERS:

ROTARY TORQUE:	6000 ft-lb	**STRING WEIGHT**	125000 lbs
WOB SLIDING (HI):	30000 lbf	**WOB ROTATE (HI):**	28000 lbf
WOB SLIDING (LO):	20000 lbf	**WOB ROTATE (LO):**	20000 lbf
RPM (ROTARY):	80 rpm	**DRAG UP:**	133000 lbf
RPM (MOTOR):	92 rpm	**DRAG DN:**	122000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 2
HOLE SIZE: 8.75 in
SECTION TYPE: Intermediate
SURVEY TYPE: Electromagnetic MWD
MANFCT.: Weatherford
STABILIZER: No
SERIAL#: 675-3642
MODEL: 7857
LOBE CFG.: 7/8
SETTING: 1.5 °
KICKPAD: No
SIZE: 6 3/4" (171mm)
MTR HRS THIS DAY: 16.83333333333
MTR HRS TO DATE: 16.83333333333
MANFCT: Security
BIT TYPE: PDC Bit
TYPE: MM64D
NOZZLES: 0.778 in² TFA
IADC BIT GRADE: 2 / 3 / RG / G / X / 1 / CT / PR

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Daily Activity Report

Day 9 - 2014/12/07

Drilling Services
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PUMP PARAMETERS

PRESSURE ON BTM: 2000 **PRESSURE OFF BTM:** 1400 **TOTAL FLOW RATE:** 564.34 gal/min

PUMP 1:	**TYPE:**	1000	**EFF.:**	95.0%	**SPM:**	85.00	**LINER:**	6.00 in	**STROKE VOL.:**	3.4944 gal/stk
PUMP 2:	**TYPE:**	1000	**EFF.:**	95.0%	**SPM:**	85.00	**LINER:**	6.00 in	**STROKE VOL.:**	3.4944 gal/stk
PUMP 3:	**TYPE:**		**EFF.:**	100.0%	**SPM:**	0.00	**LINER:**	0.00 in	**STROKE VOL.:**	0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T **VISC:** 60 sec/qt **WTR LOSS:** 6 cc/30min **PV:** 15 cP **YP:** 11 lb/100 ft² **pH:** 10.2
DENSITY: 9.6 lb/gal **GEL 0/10:** 5.00 lb/100 ft² **SAND:** 0.5 **SOLIDS:** 11.7 **OIL:** 0 **TEMP:** 95 °F
LIQUID BASE: Water **LIQUID RATE:** 0 gal/min **GAS TYPE:** **GAS RATE:** 0 cu ft/min

COMMENTS:

RIH, Drilled out Shoe and Fit tested.
Drilled From 3415' To 4780'
Rotate & Slide as needed.

CUSTOMER SIGNATURE: _____

RECEIVED: Jan. 06, 2017

Weatherford

Daily Activity Report

Day 10 - 2014/12/08

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Clint Greene

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 4780.0 ft
END DEPTH: 5708.0 ft
PROGRESS: 928.0 ft
AVG. ROP.: 58.6 ft/hr
DAILY COST: USD$11155.00
PREVIOUS COST: USD$104625.00
TOTAL COST: USD$115780.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-01:15	Rotating With Motor	1.25	4870	2	11:15-12:10	Rotating With Motor	0.92	5431	2
01:15-01:20	EM MWD Surveys	0.08	4870	2	12:10-12:15	EM MWD Surveys	0.08	5431	2
01:20-03:00	Rotating With Motor	1.67	4963	2	12:15-13:30	Rotating With Motor	1.25	5522	2
03:00-03:05	EM MWD Surveys	0.08	4963	2	13:30-13:40	Rig Service	0.17	5522	2
03:05-03:20	Rig Service	0.25	4963	2	13:40-13:45	EM MWD Surveys	0.08	5522	2
03:20-05:15	Rotating With Motor	1.92	5056	2	13:45-14:25	Orienting With Motor	0.67	5540	2
05:15-05:20	EM MWD Surveys	0.08	5056	2	14:25-15:25	Rotating With Motor	1.00	5615	2
05:20-08:20	Rotating With Motor	3.00	5149	2	15:25-15:30	EM MWD Surveys	0.08	5615	2
08:20-08:25	EM MWD Surveys	0.08	5149	2	15:30-16:20	Orienting With Motor	0.83	5640	2
08:25-10:00	Rotating With Motor	1.58	5243	2	16:20-17:10	Rotating With Motor	0.83	5708	2
10:00-10:10	EM MWD Surveys	0.17	5243	2	17:10-17:15	EM MWD Surveys	0.08	5708	2
10:10-11:05	Rotating With Motor	0.92	5336	2	17:15-24:00	Work on Pumps	6.75	5708	2
11:05-11:15	EM MWD Surveys	0.17	5336	2			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	15.83	**ORIENTING HRS:**	1.50	**ROTARY DRILL:**	0.00		
TIME DRILL:	0.00	**ROTATING HRS:**	14.33	**MOTOR HRS:**	15.83		
MOTOR REAM:	0.00			**TRIP:**	0.00		
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	8.17		
MOTOR HRS:	15.83	**DRILL HRS:**	15.83	**TOTAL HRS:**	24.00		

DRILLING PARAMETERS:

ROTARY TORQUE:	5500 ft-lb	**STRING WEIGHT**	140000 lbs
WOB SLIDING (HI):	30000 lbf	**WOB ROTATE (HI):**	34000 lbf
WOB SLIDING (LO):	20000 lbf	**WOB ROTATE (LO):**	20000 lbf
RPM (ROTARY):	80 rpm	**DRAG UP:**	153000 lbf
RPM (MOTOR):	119 rpm	**DRAG DN:**	128000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 2
HOLE SIZE: 8.75 in
SECTION TYPE: Intermediate
SURVEY TYPE: Electromagnetic MWD
MANFCT.: Weatherford
STABILIZER: No
SERIAL#: 675-3642
MODEL: 7857
LOBE CFG.: 7/8
SETTING: 1.5 °
KICKPAD: No
SIZE: 6 3/4" (171mm)
MTR HRS THIS DAY: 15.8333333333334
MTR HRS TO DATE: 32.66666666666
MANFCT: Security
BIT TYPE: PDC Bit
TYPE: MM64D
NOZZLES: 0.778 in² TFA
IADC BIT GRADE: 2 / 3 / RG / G / X / 1 / CT / PR

PUMP PARAMETERS

PRESSURE ON BTM: 2100
PRESSURE OFF BTM: 1700
TOTAL FLOW RATE: 663.94 gal/min

PUMP 1:	**TYPE:**	1000	**EFF.:**	95.0%	**SPM:**	100.00	**LINER:**	6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 2:	**TYPE:**	1000	**EFF.:**	95.0%	**SPM:**	100.00	**LINER:**	6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 3:	**TYPE:**		**EFF.:**	100.0%	**SPM:**	0.00	**LINER:**	0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 55 sec/qt
WTR LOSS: 5 cc/30min
PV: 13 cP
YP: 15 lb/100 ft²
pH: 10
DENSITY: 9.6 lb/gal
GEL 0/10: 5.00 lb/100 ft²
SAND: 0.5
SOLIDS: 8.7
OIL: 0
TEMP: 95 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

Drilled From 4780' To 5708'
Rotate & Slide as needed.

CUSTOMER SIGNATURE:

RECEIVED: Jan. 06, 2017

Daily Activity Report

Drilling Services
v4.2.2674

Day 11 - 2014/12/09

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404

WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:

SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Clint Greene

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft

START DEPTH: 5708.0 ft
END DEPTH: 6471.0 ft

PROGRESS: 763.0 ft
AVG. ROP.: 34.3 ft/hr

DAILY COST: USD$11155.00
PREVIOUS COST: USD$115780.00
TOTAL COST: USD$126935.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-00:35	Work on Pumps	0.58	5708	2	14:00-14:05	EM MWD Surveys	0.08	6174	2
00:35-01:50	Rotating With Motor	1.25	5801	2	14:05-14:20	Rig Service	0.25	6174	2
01:50-01:55	EM MWD Surveys	0.08	5801	2	14:20-17:35	Rotating With Motor	3.25	6267	2
01:55-04:04	Rotating With Motor	2.15	5894	2	17:35-17:40	EM MWD Surveys	0.08	6267	2
04:04-04:10	EM MWD Surveys	0.10	5894	2	17:40-19:05	Orienting With Motor	1.42	6297	2
04:10-06:45	Rotating With Motor	2.58	5987	2	19:05-20:15	Rotating With Motor	1.17	6360	2
06:45-06:50	EM MWD Surveys	0.08	5987	2	20:15-20:25	EM MWD Surveys	0.17	6360	2
06:50-08:10	Orienting With Motor	1.33	6012	2	20:25-21:50	Orienting With Motor	1.42	6390	2
08:10-10:35	Rotating With Motor	2.42	6081	2	21:50-22:50	Rotating With Motor	1.00	6453	2
10:35-10:50	EM MWD Surveys	0.25	6081	2	22:50-22:55	EM MWD Surveys	0.08	6453	2
10:50-12:15	Orienting With Motor	1.42	6111	2	22:55-24:00	Orienting With Motor	1.08	6471	2
12:15-14:00	Rotating With Motor	1.75	6174	2			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	22.23	**ORIENTING HRS:**	6.67	**ROTARY DRILL:**	0.00		
TIME DRILL:	0.00	**ROTATING HRS:**	15.57	**MOTOR HRS:**	22.23		
MOTOR REAM:	0.00			**TRIP:**	0.00		
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	1.77		
MOTOR HRS:	22.23	**DRILL HRS:**	22.23	**TOTAL HRS:**	24.00		

DRILLING PARAMETERS:

ROTARY TORQUE:	6100 ft-lb	**STRING WEIGHT**	148000 lbs
WOB SLIDING (HI):	30000 lbf	**WOB ROTATE (HI):**	30000 lbf
WOB SLIDING (LO):	20000 lbf	**WOB ROTATE (LO):**	20000 lbf
RPM (ROTARY):	75 rpm	**DRAG UP:**	154000 lbf
RPM (MOTOR):	115 rpm	**DRAG DN:**	130000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 2
HOLE SIZE: 8.75 in
SECTION TYPE: Intermediate
SURVEY TYPE: Electromagnetic MWD
MANFCT.: Weatherford
STABILIZER: No
SERIAL#: 675-3642
MODEL: 7857
LOBE CFG.: 7/8
SETTING: 1.5 °
KICKPAD: No
SIZE: 6 3/4" (171mm)
MTR HRS THIS DAY: 22.2333333333334
MTR HRS TO DATE: 54.9
MANFCT: Security
BIT TYPE: PDC Bit
TYPE: MM64D
NOZZLES: 0.778 in² TFA
IADC BIT GRADE: 2 / 3 / RG / G / X / 1 / CT / PR

PUMP PARAMETERS

PRESSURE ON BTM: 2500
PRESSURE OFF BTM: 2050
TOTAL FLOW RATE: 663.94 gal/min

PUMP 1:	**TYPE:**	1000	**EFF.:**	95.0%	**SPM:**	100.00	**LINER:**	6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 2:	**TYPE:**	1000	**EFF.:**	95.0%	**SPM:**	100.00	**LINER:**	6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 3:	**TYPE:**		**EFF.:**	100.0%	**SPM:**	0.00	**LINER:**	0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 60 sec/qt
WTR LOSS: 5 cc/30min
PV: 17 cP
YP: 15 lb/100 ft²
pH: 10.5
DENSITY: 9.6 lb/gal
GEL 0/10: 7.00 lb/100 ft²
SAND: 0.5
SOLIDS: 8.7
OIL: 0
TEMP: 95 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

Drilled From 5708' To 6471'
Rotate & Slide as needed.

CUSTOMER SIGNATURE:

RECEIVED: Jan. 06, 2017

Weatherford

Daily Activity Report

Day 12 - 2014/12/10

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Clint Greene, Dave Anderson

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 6471.0 ft
END DEPTH: 7080.0 ft
PROGRESS: 609.0 ft
AVG. ROP.: 27.6 ft/hr
DAILY COST: USD$11155.00
PREVIOUS COST: USD$126935.00
TOTAL COST: USD$138090.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-00:25	Orienting With Motor	0.42	6478	2	11:00-11:10	EM MWD Surveys	0.17	6826	2
00:25-01:05	Rotating With Motor	0.67	6546	2	11:10-11:35	Rotating With Motor	0.42	6833	2
01:05-01:10	EM MWD Surveys	0.08	6546	2	11:35-12:15	Work on Pumps	0.67	6833	2
01:10-01:25	Rig Service	0.25	6546	2	12:15-15:05	Rotating With Motor	2.83	6919	2
01:25-02:45	Orienting With Motor	1.33	6561	2	15:05-15:25	Rig Service	0.33	6919	2
02:45-03:50	Rotating With Motor	1.08	6640	2	15:25-15:30	EM MWD Surveys	0.08	6919	2
03:50-03:55	EM MWD Surveys	0.08	6640	2	15:30-17:35	Orienting With Motor	2.08	6944	2
03:55-05:15	Orienting With Motor	1.33	6655	2	17:35-19:35	Rotating With Motor	2.00	7012	2
05:15-06:25	Rotating With Motor	1.17	6733	2	19:35-19:45	EM MWD Surveys	0.17	7012	2
06:25-06:30	EM MWD Surveys	0.08	6733	2	19:45-22:55	Orienting With Motor	3.17	7045	2
06:30-08:15	Orienting With Motor	1.75	6753	2	22:55-24:00	Rotating With Motor	1.08	7080	2
08:15-11:00	Rotating With Motor	2.75	6826	2			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	22.08	**ORIENTING HRS:**	10.08	**ROTARY DRILL:**	0.00		
TIME DRILL:	0.00	**ROTATING HRS:**	12.00	**MOTOR HRS:**	22.08		
MOTOR REAM:	0.00			**TRIP:**	0.00		
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	1.92		
MOTOR HRS:	22.08	**DRILL HRS:**	22.08	**TOTAL HRS:**	24.00		

DRILLING PARAMETERS:

ROTARY TORQUE:	9000 ft-lb	**STRING WEIGHT**	160000 lbs
WOB SLIDING (HI):	35000 lbf	**WOB ROTATE (HI):**	30000 lbf
WOB SLIDING (LO):	25000 lbf	**WOB ROTATE (LO):**	25000 lbf
RPM (ROTARY):	70 rpm	**DRAG UP:**	188000 lbf
RPM (MOTOR):	115 rpm	**DRAG DN:**	150000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 2
HOLE SIZE: 8.75 in
SECTION TYPE: Intermediate
SURVEY TYPE: Electromagnetic MWD
MANFCT.: Weatherford
STABILIZER: No
SERIAL#: 675-3642
MODEL: 7857
LOBE CFG.: 7/8
SETTING: 1.5 °
KICKPAD: No
SIZE: 6 3/4" (171mm)
MTR HRS THIS DAY: 22.0833333333333
MTR HRS TO DATE: 76.98333333333
MANFCT: Security
BIT TYPE: PDC Bit
TYPE: MM64D
NOZZLES: 0.778 in² TFA
IADC BIT GRADE: 2 / 3 / RG / G / X / 1 / CT / PR

PUMP PARAMETERS

PRESSURE ON BTM: 2550
PRESSURE OFF BTM: 2100
TOTAL FLOW RATE: 663.94 gal/min

PUMP 1:	**TYPE:**	1000	**EFF.:**	95.0%	**SPM:**	100.00	**LINER:**	6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 2:	**TYPE:**	1000	**EFF.:**	95.0%	**SPM:**	100.00	**LINER:**	6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 3:	**TYPE:**		**EFF.:**	100.0%	**SPM:**	0.00	**LINER:**	0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 57 sec/qt
WTR LOSS: 5 cc/30min
PV: 17 cP
YP: 15 lb/100 ft²
pH: 10.9
DENSITY: 9.8 lb/gal
GEL 0/10: 5.00 lb/100 ft²
SAND: 0.5
SOLIDS: 9.2
OIL: 0
TEMP: 95 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

Drilled From 6471' To 7080'
Rotate & Slide as needed.

CUSTOMER SIGNATURE:

RECEIVED: Jan. 06, 2017

Weatherford

Daily Activity Report

Day 13 - 2014/12/11

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Clint Greene, Dave Anderson

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 7080.0 ft
END DEPTH: 7221.0 ft
PROGRESS: 141.0 ft
AVG. ROP.: 22.3 ft/hr
DAILY COST: USD$17605.00
PREVIOUS COST: USD$138090.00
TOTAL COST: USD$155695.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-00:40	Rotating With Motor	0.67	7105	2	05:50-06:50	Rotating With Motor	1.00	7221	2
00:40-00:45	EM MWD Surveys	0.08	7105	2	06:50-07:50	Circ Bottoms Up	1.00	7221	2
00:45-01:10	Rig Service	0.42	7105	2	07:50-15:45	POOH To Change BHA	7.92	7221	2
01:10-03:20	Orienting With Motor	2.17	7135	2	15:45-19:00	Back Reaming	3.25	7221	2
03:20-05:50	Rotating With Motor	2.50	7199	2	19:00-24:00	RIH With New BHA	5.00	7221	2
05:50-05:50	EM MWD Surveys	0.00	7199	2			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	6.33	**ORIENTING HRS:**	2.17	**ROTARY DRILL:**	0.00		
TIME DRILL:	0.00	**ROTATING HRS:**	4.17	**MOTOR HRS:**	10.58		
MOTOR REAM:	0.00			**TRIP:**	12.92		
CIRC:	4.25	**ROTARY DRILL:**	0.00	**OTHER:**	0.50		
MOTOR HRS:	10.58	**DRILL HRS:**	6.33	**TOTAL HRS:**	24.00		

DRILLING PARAMETERS:

ROTARY TORQUE:	65000 ft-lb	**STRING WEIGHT**	173000 lbs
WOB SLIDING (HI):	36000 lbf	**WOB ROTATE (HI):**	32000 lbf
WOB SLIDING (LO):	30000 lbf	**WOB ROTATE (LO):**	20000 lbf
RPM (ROTARY):	70 rpm	**DRAG UP:**	180000 lbf
RPM (MOTOR):	115 rpm	**DRAG DN:**	155000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 2
HOLE SIZE: 8.75 in
SECTION TYPE: Intermediate
SURVEY TYPE: Electromagnetic MWD
MANFCT.: Weatherford
STABILIZER: No
SERIAL#: 675-3642
MODEL: 7857
LOBE CFG.: 7/8
SETTING: 1.5 °
KICKPAD: No
SIZE: 6 3/4" (171mm)
MTR HRS THIS DAY: 10.58333333333
MTR HRS TO DATE: 87.56666666666
MANFCT: Security
BIT TYPE: PDC Bit
TYPE: MM64D
NOZZLES: 0.778 in² TFA
IADC BIT GRADE: 2 / 3 / RG / G / X / 1 / CT / PR

PUMP PARAMETERS

PRESSURE ON BTM: 2600
PRESSURE OFF BTM: 2150
TOTAL FLOW RATE: 677.21 gal/min

PUMP 1:	**TYPE:**	1000	**EFF.:**	95.0%	**SPM:**	102.00	**LINER:**	6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 2:	**TYPE:**	1000	**EFF.:**	95.0%	**SPM:**	102.00	**LINER:**	6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 3:	**TYPE:**		**EFF.:**	100.0%	**SPM:**	0.00	**LINER:**	0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 55 sec/qt
WTR LOSS: 5 cc/30min
PV: 17 cP
YP: 15 lb/100 ft²
pH: 10.1
DENSITY: 9.9 lb/gal
GEL 0/10: 5.00 lb/100 ft²
SAND: 0.5
SOLIDS: 9.7
OIL: 0
TEMP: 96 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

Drilled From 7080' To 7221'
Rotate & Slide as needed.
Company Rep made the call to Bit and Motor Trip due to low ROP.
Circ Bottoms up, POOH For Bit and Motor.
Changed out Bit & Motor, RIH.

CUSTOMER SIGNATURE: _____

RECEIVED: Jan. 06, 2017

Weatherford

Daily Activity Report

Day 14 - 2014/12/12

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Dave Anderson
MWD Trainee: Aaron Leyva

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 7221.0 ft
END DEPTH: 8309.0 ft
PROGRESS: 1088.0 ft
AVG. ROP.: 54.6 ft/hr
DAILY COST: USD$11155.00
PREVIOUS COST: USD$155695.00
TOTAL COST: USD$166850.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-02:40	RIH With New BHA	2.67	7221	3	10:45-12:10	Rotating With Motor	1.42	7758	3
02:40-03:35	Rotating With Motor	0.92	7292	3	12:10-12:15	EM MWD Surveys	0.08	7758	3
03:35-03:40	EM MWD Surveys	0.08	7292	3	12:15-13:45	Rotating With Motor	1.50	7851	3
03:40-05:00	Rotating With Motor	1.33	7385	3	13:45-13:50	EM MWD Surveys	0.08	7851	3
05:00-05:05	EM MWD Surveys	0.08	7385	3	13:50-15:35	Rotating With Motor	1.75	7944	3
05:05-05:15	Rig Service	0.17	7385	3	15:35-15:55	Rig Service	0.33	7944	3
05:15-05:50	Rotating With Motor	0.58	7421	3	15:55-16:00	EM MWD Surveys	0.08	7944	3
05:50-06:30	Orienting With Motor	0.67	7431	3	16:00-18:00	Rotating With Motor	2.00	8037	3
06:30-07:15	Rotating With Motor	0.75	7478	3	18:00-18:05	EM MWD Surveys	0.08	8037	3
07:15-07:20	EM MWD Surveys	0.08	7478	3	18:05-19:45	Rotating With Motor	1.67	8130	3
07:20-08:10	Orienting With Motor	0.83	7478	3	19:45-19:50	EM MWD Surveys	0.08	8130	3
08:10-09:20	Rotating With Motor	1.17	7571	3	19:50-22:00	Rotating With Motor	2.17	8223	3
09:20-09:25	EM MWD Surveys	0.08	7571	3	22:00-22:05	EM MWD Surveys	0.08	8223	3
09:25-10:40	Rotating With Motor	1.25	7664	3	22:05-24:00	Rotating With Motor	1.92	8309	3
10:40-10:45	EM MWD Surveys	0.08	7664	3			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	19.92	**ORIENTING HRS:**	1.50	**ROTARY DRILL:**	0.00		
TIME DRILL:	0.00	**ROTATING HRS:**	18.42	**MOTOR HRS:**	19.92		
MOTOR REAM:	0.00			**TRIP:**	2.67		
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	1.42		
MOTOR HRS:	19.92	**DRILL HRS:**	19.92	**TOTAL HRS:**	24.00		

DRILLING PARAMETERS:

ROTARY TORQUE:	7500 ft-lb	**STRING WEIGHT**	194000 lbs
WOB SLIDING (HI):	36000 lbf	**WOB ROTATE (HI):**	26000 lbf
WOB SLIDING (LO):	30000 lbf	**WOB ROTATE (LO):**	20000 lbf
RPM (ROTARY):	70 rpm	**DRAG UP:**	215000 lbf
RPM (MOTOR):	115 rpm	**DRAG DN:**	170000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 3
HOLE SIZE: 8.75 in
SECTION TYPE: Intermediate
SURVEY TYPE: Electromagnetic MWD
MANFCT.: Weatherford
STABILIZER: No
SERIAL#: 675-1589
MODEL: 7857
LOBE CFG.: 7/8
SETTING: 1.5 °
KICKPAD: No
SIZE: 6 3/4" (171mm)
MTR HRS THIS DAY: 19.9166666666667
MTR HRS TO DATE: 19.91666666666
MANFCT: Security
BIT TYPE: PDC Bit
TYPE: MM64D
NOZZLES: 0.778 in² TFA
IADC BIT GRADE: 2 / 3 / BT / S / X / I / BT / RIG

PUMP PARAMETERS

PRESSURE ON BTM: 2700
PRESSURE OFF BTM: 2250
TOTAL FLOW RATE: 663.94 gal/min

PUMP 1:	**TYPE:**	1000	**EFF.:**	95.0%	**SPM:**	100.00	**LINER:**	6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 2:	**TYPE:**	1000	**EFF.:**	95.0%	**SPM:**	100.00	**LINER:**	6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 3:	**TYPE:**		**EFF.:**	100.0%	**SPM:**	0.00	**LINER:**	0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 55 sec/qt
WTR LOSS: 5 cc/30min
PV: 17 cP
YP: 15 lb/100 ft²
pH: 10
DENSITY: 9.9 lb/gal
GEL 0/10: 5.00 lb/100 ft²
SAND: 0.5
SOLIDS: 9.7
OIL: 0
TEMP: 95 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

RECEIVED: Jan. 06, 2017

Daily Activity Report

Day 14 - 2014/12/12

Drilling Services
v4.2.2674

COMMENTS:

RIH with new Bit and Motor.
Drill from 7221' to 8309'

CUSTOMER SIGNATURE:

RECEIVED: Jan. 06, 2017

Weatherford

Daily Activity Report

Day 15 - 2014/12/13

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Dave Anderson
MWD Trainee: Aaron Leyva

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 8309.0 ft
END DEPTH: 9209.0 ft
PROGRESS: 900.0 ft
AVG. ROP.: 40.6 ft/hr
DAILY COST: USD$11155.00
PREVIOUS COST: USD$166850.00
TOTAL COST: USD$178005.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-00:10	Rotating With Motor	0.17	8317	3	11:50-11:55	EM MWD Surveys	0.08	8782	3
00:10-00:15	EM MWD Surveys	0.08	8317	3	11:55-14:35	Rotating With Motor	2.67	8875	3
00:15-02:55	Rotating With Motor	2.67	8410	3	14:35-15:00	Rig Service	0.42	8875	3
02:55-03:00	EM MWD Surveys	0.08	8410	3	15:00-15:05	EM MWD Surveys	0.08	8875	3
03:00-03:30	Rig Service	0.50	8410	3	15:05-17:45	Rotating With Motor	2.67	8968	3
03:30-05:45	Rotating With Motor	2.25	8503	3	17:45-17:50	EM MWD Surveys	0.08	8968	3
05:45-05:50	EM MWD Surveys	0.08	8503	3	17:50-20:10	Rotating With Motor	2.33	9061	3
05:50-07:35	Rotating With Motor	1.75	8596	3	20:10-20:15	EM MWD Surveys	0.08	9061	3
07:35-07:40	EM MWD Surveys	0.08	8596	3	20:15-22:45	Rotating With Motor	2.50	9154	3
07:40-09:50	Rotating With Motor	2.17	8689	3	22:45-22:50	EM MWD Surveys	0.08	9154	3
09:50-10:00	EM MWD Surveys	0.17	8689	3	22:50-24:00	Rotating With Motor	1.17	9209	3
10:00-11:50	Rotating With Motor	1.83	8782	3			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	22.17	**ORIENTING HRS:**	0.00	**ROTARY DRILL:**	0.00
TIME DRILL:	0.00	**ROTATING HRS:**	22.17	**MOTOR HRS:**	22.17
MOTOR REAM:	0.00			**TRIP:**	0.00
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	1.83
MOTOR HRS:	22.17	**DRILL HRS:**	22.17	**TOTAL HRS:**	24.00

DRILLING PARAMETERS:

ROTARY TORQUE:	7500 ft-lb	**STRING WEIGHT**	203000 lbs
WOB SLIDING (HI):	30000 lbf	**WOB ROTATE (HI):**	30000 lbf
WOB SLIDING (LO):	20000 lbf	**WOB ROTATE (LO):**	25000 lbf
RPM (ROTARY):	70 rpm	**DRAG UP:**	220000 lbf
RPM (MOTOR):	115 rpm	**DRAG DN:**	189000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 3
HOLE SIZE: 8.75 in
SECTION TYPE: Intermediate
SURVEY TYPE: Electromagnetic MWD
MANFCT.: Weatherford
STABILIZER: No
SERIAL#: 675-1589
MODEL: 7857
LOBE CFG.: 7/8
SETTING: 1.5 °
KICKPAD: No
SIZE: 6 3/4" (171mm)
MTR HRS THIS DAY: 22.1666666666667
MTR HRS TO DATE: 42.08333333333
MANFCT: Security
BIT TYPE: PDC Bit
TYPE: MM64D
NOZZLES: 0.778 in² TFA
IADC BIT GRADE: 2 / 3 / BT / S / X / I / BT / RIG

PUMP PARAMETERS

PRESSURE ON BTM: 3300
PRESSURE OFF BTM: 2850
TOTAL FLOW RATE: 663.94 gal/min

PUMP 1:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 100.00	**LINER:** 6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 2:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 100.00	**LINER:** 6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 3:	**TYPE:**	**EFF.:** 100.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 55 sec/qt
WTR LOSS: 5 cc/30min
PV: 19 cP
YP: 15 lb/100 ft²
pH: 10.4
DENSITY: 9.9 lb/gal
GEL 0/10: 5.00 lb/100 ft²
SAND: 0.5
SOLIDS: 9.7
OIL: 0
TEMP: 95 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

Drill from 8309' to 9209'

CUSTOMER SIGNATURE:

RECEIVED: Jan. 06, 2017

Weatherford

Daily Activity Report

Day 16 - 2014/12/14

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Dave Anderson
MWD Trainee: Aaron Leyva

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 9209.0 ft
END DEPTH: 9696.0 ft
PROGRESS: 487.0 ft
AVG. ROP.: 35.6 ft/hr
DAILY COST: USD$11155.00
PREVIOUS COST: USD$178005.00
TOTAL COST: USD$189160.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-00:45	Rotating With Motor	0.75	9247	3	08:35-08:40	EM MWD Surveys	0.08	9433	3
00:45-00:50	EM MWD Surveys	0.08	9247	3	08:40-09:45	Rotating With Motor	1.08	9559	3
00:50-01:15	Rig Service	0.42	9247	3	09:45-10:55	Work on Pumps	1.17	9559	3
01:15-03:20	Rotating With Motor	2.08	9340	3	10:55-12:30	Rotating With Motor	1.58	9619	3
03:20-03:25	EM MWD Surveys	0.08	9340	3	12:30-12:35	EM MWD Surveys	0.08	9619	3
03:25-05:45	Rotating With Motor	2.33	9433	3	12:35-15:40	Rotating With Motor	3.08	9696	3
05:45-05:50	EM MWD Surveys	0.08	9433	3	15:40-24:00	Rig Repair	8.33	9696	3
05:50-08:35	Rotating With Motor	2.75	9433	3			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	13.67	**ORIENTING HRS:**	0.00	**ROTARY DRILL:**	0.00		
TIME DRILL:	0.00	**ROTATING HRS:**	13.67	**MOTOR HRS:**	13.67		
MOTOR REAM:	0.00			**TRIP:**	0.00		
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	10.33		
MOTOR HRS:	13.67	**DRILL HRS:**	13.67	**TOTAL HRS:**	24.00		

DRILLING PARAMETERS:

ROTARY TORQUE:	8500 ft-lb	**STRING WEIGHT**	212000 lbs
WOB SLIDING (HI):	30000 lbf	**WOB ROTATE (HI):**	30000 lbf
WOB SLIDING (LO):	20000 lbf	**WOB ROTATE (LO):**	25000 lbf
RPM (ROTARY):	70 rpm	**DRAG UP:**	225000 lbf
RPM (MOTOR):	115 rpm	**DRAG DN:**	194000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 3
HOLE SIZE: 8.75 in
SECTION TYPE: Intermediate
SURVEY TYPE: Electromagnetic MWD
MANFCT.: Weatherford
STABILIZER: No
SERIAL#: 675-1589
MODEL: 7857
LOBE CFG.: 7/8
SETTING: 1.5 °
KICKPAD: No
SIZE: 6 3/4" (171mm)
MTR HRS THIS DAY: 13.66666666666667
MTR HRS TO DATE: 55.75
MANFCT: Security
BIT TYPE: PDC Bit
TYPE: MM64D
NOZZLES: 0.778 in² TFA
IADC BIT GRADE: 2 / 3 / BT / S / X / I / BT / RIG

PUMP PARAMETERS

PRESSURE ON BTM: 3300
PRESSURE OFF BTM: 2850
TOTAL FLOW RATE: 663.94 gal/min

PUMP 1:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 100.00	**LINER:** 6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 2:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 100.00	**LINER:** 6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 3:	**TYPE:**	**EFF.:** 100.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 60 sec/qt
WTR LOSS: 5 cc/30min
PV: 17 cP
YP: 15 lb/100 ft²
pH: 10.2
DENSITY: 9.9 lb/gal
GEL 0/10: 5.00 lb/100 ft²
SAND: 0.5
SOLIDS: 9.7
OIL: 0
TEMP: 95 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

Drill from 9209' to 9696'
Had issuse with Top Drive, spent all night repairing it.

CUSTOMER SIGNATURE:

RECEIVED: Jan. 06, 2017

Daily Activity Report

Drilling Services
v4.2.2674

Day 17 - 2014/12/15

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Dave Anderson
MWD Trainee: Aaron Leyva

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 9696.0 ft
END DEPTH: 9696.0 ft
PROGRESS: 0.0 ft
AVG. ROP.: 0.0 ft/hr
DAILY COST: USD$16105.00
PREVIOUS COST: USD$189160.00
TOTAL COST: USD$205265.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-12:30	Work on Top Drive	12.50	9696	3	12:30-24:00	POOH To Check Tools	11.50	9696	3

TIME SUMMARY (hrs):

MOTOR DRILL:	0.00	**ORIENTING HRS:**	0.00	**ROTARY DRILL:**	0.00
TIME DRILL:	0.00	**ROTATING HRS:**	0.00	**MOTOR HRS:**	0.00
MOTOR REAM:	0.00			**TRIP:**	11.50
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	12.50
MOTOR HRS:	0.00	**DRILL HRS:**	0.00	**TOTAL HRS:**	24.00

DRILLING PARAMETERS:

ROTARY TORQUE:		**STRING WEIGHT**	0 lbs
WOB SLIDING (HI):	0 lbf	**WOB ROTATE (HI):**	0 lbf
WOB SLIDING (LO):	0 lbf	**WOB ROTATE (LO):**	0 lbf
RPM (ROTARY):		**DRAG UP:**	0 lbf
RPM (MOTOR):		**DRAG DN:**	0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 3
HOLE SIZE: 8.75 in
SECTION TYPE: Intermediate
SURVEY TYPE: Electromagnetic MWD
MANFCT.: Weatherford
STABILIZER: No
SERIAL#: 675-1589
MODEL: 7857
LOBE CFG.: 7/8
SETTING: 1.5 °
KICKPAD: No
SIZE: 6 3/4" (171mm)
MTR HRS THIS DAY: 0
MTR HRS TO DATE: 55.75
MANFCT: Security
BIT TYPE: PDC Bit
TYPE: MM64D
NOZZLES: 0.778 in² TFA
IADC BIT GRADE: 2 / 3 / BT / S / X / I / BT / RIG

PUMP PARAMETERS

PRESSURE ON BTM: 0
PRESSURE OFF BTM: 0
TOTAL FLOW RATE: 0.00 gal/min

PUMP 1:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 2:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 3:	**TYPE:**	**EFF.:** 100.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 57 sec/qt
WTR LOSS: 5 cc/30min
PV: 20 cP
YP: 15 lb/100 ft²
pH: 10.6
DENSITY: 10.1 lb/gal
GEL 0/10: 5.00 lb/100 ft²
SAND: 0.5
SOLIDS: 10.7
OIL: 0
TEMP: 95 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

Rig Repair on Top Drive, POOH to check tools and LD Directional Tools.

CUSTOMER SIGNATURE: _____

RECEIVED: Jan. 06, 2017

Weatherford

Daily Activity Report

Day 18 - 2014/12/16

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Dave Anderson
MWD Trainee: Aaron Leyva

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 9696.0 ft
END DEPTH: 9709.0 ft
PROGRESS: 13.0 ft
AVG. ROP.: 76.5 ft/hr
DAILY COST: USD$11155.00
PREVIOUS COST: USD$205265.00
TOTAL COST: USD$216420.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-01:30	Lay Down Directional Tools	1.50	9696	3	05:30-23:50	RIH With New BHA	18.33	9696	4
01:30-05:30	Handle Directional Tools	4.00	9696	4	23:50-24:00	Rotating With Motor	0.17	9709	4

TIME SUMMARY (hrs):

MOTOR DRILL:	0.17	**ORIENTING HRS:**	0.00	**ROTARY DRILL:**	0.00
TIME DRILL:	0.00	**ROTATING HRS:**	0.00	**MOTOR HRS:**	0.17
MOTOR REAM:	0.00			**TRIP:**	18.33
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	5.50
MOTOR HRS:	0.17	**DRILL HRS:**	0.17	**TOTAL HRS:**	24.00

DRILLING PARAMETERS:

ROTARY TORQUE:		**STRING WEIGHT**	0 lbs
WOB SLIDING (HI):	0 lbf	**WOB ROTATE (HI):**	0 lbf
WOB SLIDING (LO):	0 lbf	**WOB ROTATE (LO):**	0 lbf
RPM (ROTARY):		**DRAG UP:**	0 lbf
RPM (MOTOR):		**DRAG DN:**	0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 3 **HOLE SIZE:** 8.75 in **SECTION TYPE:** Intermediate **SURVEY TYPE:** Electromagnetic MWD
MANFCT.: Weatherford **STABILIZER:** No **SERIAL#:** 675-1589 **MODEL:** 7857 **LOBE CFG.:** 7/8
SETTING: 1.5 ° **KICKPAD:** No **SIZE:** 6 3/4" (171mm) **MTR HRS THIS DAY:** 0 **MTR HRS TO DATE:** 55.75
MANFCT: Security **BIT TYPE:** PDC Bit **TYPE:** MM64D **NOZZLES:** 0.778 in² TFA
IADC BIT GRADE: 2 / 3 / BT / S / X / I / BT / RIG

BHA: 4 **HOLE SIZE:** 8.75 in **SECTION TYPE:** Intermediate **SURVEY TYPE:** Electromagnetic MWD
MANFCT.: WFT **STABILIZER:** No **SERIAL#:** 675-3759 **MODEL:** QLE7857 **LOBE CFG.:** 7/8
SETTING: 1.5 ° **KICKPAD:** No **SIZE:** 6 3/4" (171mm) **MTR HRS THIS DAY:** 0.166666666666667 **MTR HRS TO DATE:** 0.166666666666
MANFCT: Security **BIT TYPE:** PDC Bit **TYPE:** MM64D **NOZZLES:** 0.778 in² TFA
IADC BIT GRADE: 1 / 2 / NO / A / X / I / NO / TD

PUMP PARAMETERS

PRESSURE ON BTM: 0 **PRESSURE OFF BTM:** 0 **TOTAL FLOW RATE:** 0.00 gal/min

PUMP 1:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 2:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 3:	**TYPE:**	**EFF.:** 100.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T **VISC:** 56 sec/qt **WTR LOSS:** 5 cc/30min **PV:** 20 cP **YP:** 15 lb/100 ft² **pH:** 10.8
DENSITY: 10 lb/gal **GEL 0/10:** 5.00 lb/100 ft² **SAND:** 0.5 **SOLIDS:** 10.2 **OIL:** 0 **TEMP:** 95 °F
LIQUID BASE: Water **LIQUID RATE:** 0 gal/min **GAS TYPE:** **GAS RATE:** 0 cu ft/min

COMMENTS:

LD Directional Tools, Pick Up new BHA.
RIH with BHA 4 and New Rig Drill Collars.
Drilled from 9696' to 9709'.

CUSTOMER SIGNATURE:

RECEIVED: Jan. 06, 2017

Weatherford

Daily Activity Report

Day 19 - 2014/12/17

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Supervisor: Dave Anderson, Rodney Gaines
MWD Trainee: Aaron Leyva

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 9709.0 ft
END DEPTH: 10009.0 ft
PROGRESS: 300.0 ft
AVG. ROP.: 53.8 ft/hr
DAILY COST: USD$11155.00
PREVIOUS COST: USD$216420.00
TOTAL COST: USD$227575.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-01:00	Rotating With Motor	1.00	9723	4	04:20-06:00	Rotating With Motor	1.67	10003	4
01:00-01:05	EM MWD Surveys	0.08	9723	4	06:00-06:05	EM MWD Surveys	0.08	10003	4
01:05-02:30	Rotating With Motor	1.42	9816	4	06:05-06:10	Rotating With Motor	0.08	10009	4
02:30-02:35	EM MWD Surveys	0.08	9816	4	06:10-07:00	Work on Pumps	0.83	10009	4
02:35-04:00	Rotating With Motor	1.42	9910	4	07:00-22:30	Circulating - See Comments - Circ Gas Out	15.50	10009	4
04:00-04:05	EM MWD Surveys	0.08	9910	4	22:30-24:00	POOH For Directional	1.50	10009	4
04:05-04:20	Rig Service	0.25	9910	4			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL:	5.58	**ORIENTING HRS:**	0.00	**ROTARY DRILL:**	0.00		
TIME DRILL:	0.00	**ROTATING HRS:**	5.58	**MOTOR HRS:**	21.08		
MOTOR REAM:	0.00			**TRIP:**	1.50		
CIRC:	15.50	**ROTARY DRILL:**	0.00	**OTHER:**	1.42		
MOTOR HRS:	21.08	**DRILL HRS:**	5.58	**TOTAL HRS:**	24.00		

DRILLING PARAMETERS:

ROTARY TORQUE:	15000 ft-lb	**STRING WEIGHT**	234000 lbs
WOB SLIDING (HI):	30000 lbf	**WOB ROTATE (HI):**	25000 lbf
WOB SLIDING (LO):	20000 lbf	**WOB ROTATE (LO):**	20000 lbf
RPM (ROTARY):	75 rpm	**DRAG UP:**	250000 lbf
RPM (MOTOR):	115 rpm	**DRAG DN:**	210000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 4
HOLE SIZE: 8.75 in
SECTION TYPE: Intermediate
SURVEY TYPE: Electromagnetic MWD
MANFCT.: WFT
STABILIZER: No
SERIAL#: 675-3759
MODEL: QLE7857
LOBE CFG.: 7/8
SETTING: 1.5 °
KICKPAD: No
SIZE: 6 3/4" (171mm)
MTR HRS THIS DAY: 21.0833333333334
MTR HRS TO DATE: 21.25
MANFCT: Security
BIT TYPE: PDC Bit
TYPE: MM64D
NOZZLES: 0.778 in² TFA
IADC BIT GRADE: 1 / 2 / NO / A / X / I / NO / TD

PUMP PARAMETERS

PRESSURE ON BTM: 3000
PRESSURE OFF BTM: 2550
TOTAL FLOW RATE: 663.94 gal/min

PUMP 1:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 100.00	**LINER:** 6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 2:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 100.00	**LINER:** 6.00 in	**STROKE VOL.:** 3.4944 gal/stk
PUMP 3:	**TYPE:**	**EFF.:** 100.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 50 sec/qt
WTR LOSS: 5 cc/30min
PV: 17 cP
YP: 12 lb/100 ft²
pH: 10.2
DENSITY: 10.1 lb/gal
GEL 0/10: 4.00 lb/100 ft²
SAND: 0.5
SOLIDS: 10.7
OIL: 0
TEMP: 95 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

RIH w/ New BHA.
Drill from 9696' to 10009' TD
Worked on Pumps, Company Rep called TD early @ 10009'.
Circ gas out, and POOH.

CUSTOMER SIGNATURE:

RECEIVED: Jan. 06, 2017

Weatherford

Daily Activity Report

Day 20 - 2014/12/18

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Trainee: Aaron Leyva
MWD Supervisor: Rodney Gaines

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 10009.0 ft
END DEPTH: 10009.0 ft
PROGRESS: 0.0 ft
AVG. ROP.: 0.0 ft/hr
DAILY COST: USD$11155.00
PREVIOUS COST: USD$227575.00
TOTAL COST: USD$238730.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-15:50	Circulating - Circ gas out.	15.83	10009	4	15:50-24:00	POOH - See Comments - POOH for TD	8.17	10009	4

TIME SUMMARY (hrs):

MOTOR DRILL:	0.00	**ORIENTING HRS:**	0.00	**ROTARY DRILL:**	0.00
TIME DRILL:	0.00	**ROTATING HRS:**	0.00	**MOTOR HRS:**	15.83
MOTOR REAM:	0.00			**TRIP:**	8.17
CIRC:	15.83	**ROTARY DRILL:**	0.00	**OTHER:**	0.00
MOTOR HRS:	15.83	**DRILL HRS:**	0.00	**TOTAL HRS:**	24.00

DRILLING PARAMETERS:

ROTARY TORQUE:		**STRING WEIGHT**	0 lbs
WOB SLIDING (HI):	0 lbf	**WOB ROTATE (HI):**	0 lbf
WOB SLIDING (LO):	0 lbf	**WOB ROTATE (LO):**	0 lbf
RPM (ROTARY):		**DRAG UP:**	0 lbf
RPM (MOTOR):		**DRAG DN:**	0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 4
HOLE SIZE: 8.75 in
SECTION TYPE: Intermediate
SURVEY TYPE: Electromagnetic MWD
MANFCT.: WFT
STABILIZER: No
SERIAL#: 675-3759
MODEL: QLE7857
LOBE CFG.: 7/8
SETTING: 1.5 °
KICKPAD: No
SIZE: 6 3/4" (171mm)
MTR HRS THIS DAY: 15.8333333333334
MTR HRS TO DATE: 37.08333333333
MANFCT: Security
BIT TYPE: PDC Bit
TYPE: MM64D
NOZZLES: 0.778 in² TFA
IADC BIT GRADE: 1 / 2 / NO / A / X / I / NO / TD

PUMP PARAMETERS

PRESSURE ON BTM: 0
PRESSURE OFF BTM: 0
TOTAL FLOW RATE: 0.00 gal/min

PUMP 1:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 2:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 3:	**TYPE:**	**EFF.:** 100.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 47 sec/qt
WTR LOSS: 5 cc/30min
PV: 17 cP
YP: 11 lb/100 ft²
pH: 10
DENSITY: 11.6 lb/gal
GEL 0/10: 4.00 lb/100 ft²
SAND: 0.5
SOLIDS: 16
OIL: 0
TEMP: 95 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

Circulate Gas Out,POOH.

CUSTOMER SIGNATURE:

RECEIVED: Jan. 06, 2017

Weatherford

Daily Activity Report

Day 21 - 2014/12/19

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Trainee: Jorge Granados
DIR Supervisor: Leon Castello
MWD Trainee: Aaron Leyva
MWD Supervisor: Rodney Gaines

GROUND ELEV: 5475.6 ft
KB ELEV: 5458.6 ft
START DEPTH: 10009.0 ft
END DEPTH: 10009.0 ft
PROGRESS: 0.0 ft
AVG. ROP.: 0.0 ft/hr
DAILY COST: USD$11155.00
PREVIOUS COST: USD$238730.00
TOTAL COST: USD$249885.00

WORK STATUS: Operating *(All units are imperial.)*

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-02:00	POOH - See Comments - POOH for TD	2.00	10009	4	03:30-05:30	Standby	2.00	10009	4
02:00-03:30	Lay Down Directional Tools	1.50	10009	4	05:30-24:00	Travel Home	18.50	10009	4

TIME SUMMARY (hrs):

MOTOR DRILL:	0.00	**ORIENTING HRS:**	0.00	**ROTARY DRILL:**	0.00
TIME DRILL:	0.00	**ROTATING HRS:**	0.00	**MOTOR HRS:**	0.00
MOTOR REAM:	0.00			**TRIP:**	2.00
CIRC:	0.00	**ROTARY DRILL:**	0.00	**OTHER:**	22.00
MOTOR HRS:	0.00	**DRILL HRS:**	0.00	**TOTAL HRS:**	24.00

DRILLING PARAMETERS:

ROTARY TORQUE:		**STRING WEIGHT**	0 lbs
WOB SLIDING (HI):	0 lbf	**WOB ROTATE (HI):**	0 lbf
WOB SLIDING (LO):	0 lbf	**WOB ROTATE (LO):**	0 lbf
RPM (ROTARY):		**DRAG UP:**	0 lbf
RPM (MOTOR):		**DRAG DN:**	0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 4
HOLE SIZE: 8.75 in
SECTION TYPE: Intermediate
SURVEY TYPE: Electromagnetic MWD
MANFCT.: WFT
STABILIZER: No
SERIAL#: 675-3759
MODEL: QLE7857
LOBE CFG.: 7/8
SETTING: 1.5 °
KICKPAD: No
SIZE: 6 3/4" (171mm)
MTR HRS THIS DAY: 0
MTR HRS TO DATE: 37.08333333333
MANFCT: Security
BIT TYPE: PDC Bit
TYPE: MM64D
NOZZLES: 0.778 in² TFA
IADC BIT GRADE: 1 / 2 / NO / A / X / I / NO / TD

PUMP PARAMETERS

PRESSURE ON BTM: 0
PRESSURE OFF BTM: 0
TOTAL FLOW RATE: 0.00 gal/min

PUMP 1:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 2:	**TYPE:** 1000	**EFF.:** 95.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk
PUMP 3:	**TYPE:**	**EFF.:** 100.0%	**SPM:** 0.00	**LINER:** 0.00 in	**STROKE VOL.:** 0.0000 gal/stk

MUD RECORD

MUD TYPE: Carbonox/Quik-T
VISC: 47 sec/qt
WTR LOSS: 5 cc/30min
PV: 17 cP
YP: 11 lb/100 ft²
pH: 17
DENSITY: 11.6 lb/gal
GEL 0/10: 5.00 lb/100 ft²
SAND: 0.5
SOLIDS: 16.2
OIL: 0
TEMP: 95 °F
LIQUID BASE: Water
LIQUID RATE: 0 gal/min
GAS TYPE:
GAS RATE: 0 cu ft/min

COMMENTS:

POOH, LD Directional Tools. Load Truck and Travel Home.

CUSTOMER SIGNATURE:

RECEIVED: Jan. 06, 2017

BHA REPORTS

RECEIVED: Jan. 06, 2017

Weatherford

BHA Report

BHA 1 - Surface Section

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Supervisor: Leon Castello
MWD Supervisor: Rodney Gaines

BHA SURVEY TYPE: Electromagnetic MWD
HOLE SIZE: 12.25 in

QTY	COMPONENT	MANFCT.	SERIAL #	MODEL	O.D.	I.D.	F.N.	BOT. CONN.	TOP CONN.	LEN.	C.LEN.
1	PDC Bit	Baker	714-8071	DP506FX	12.25	0	0		5" REG Pin	2.00 ft	2.00 ft
1	Drilling Motor	Hunting	WC-58258-001		8.17	0	2.45	5" REG Box	6 5/8" REG Box	26.15 ft	28.15 ft
1	Shock Sub	Hunting	ACS 007		8.03	3	0	6 5/8" REG Pin	6 5/8" REG Box	9.05 ft	37.20 ft
1	8"NM Pony Collar	WFT	DR14436		8.09	3.25	0	6 5/8" REG Pin	6 5/8" REG Box	13.18 ft	50.38 ft
1	8"Double Pin	WFT	8004C		8.09	3.75	0	6 5/8" REG Pin	6 5/8" REG Pin	2.00 ft	52.38 ft
1	8"MWD Tool Carrier	WFT	80019358		8.1	3.75	0	6 5/8" REG Box	6 5/8" REG Box	19.61 ft	71.99 ft
1	8"MWD Emitter Sub	WFT	77529940		7.93	2.75	0	6 5/8" REG Pin	6 5/8" REG Box	10.89 ft	82.88 ft
1	8"NMDC	WFT	DR21326		8.1	3.5	0	6 5/8" REG Pin	6 5/8" REG Box	30.44 ft	113.32 ft

(O.D. units are in; I.D. units are in; FNeck units are ft)

GENERAL INFORMATION

DATES RUN:	2014/12/01 TO 2014/12/04		
DEPTH IN:	0.00 ft	**ANGLE IN:**	0.00 °
DEPTH OUT:	3415.00 ft	**ANGLE OUT:**	6.29 °
DRILL HRS:	41.58	**BUILD:**	6.29 °
ORIENTING HRS:	9.13	**HOLE MADE:**	3415.00 ft
ROTATING HRS:	32.45	**AVG R.O.P.:**	82.13 ft/hr

MOTOR INFORMATION

MANFCT.	Hunting	**SETTING:**	1.50 °
SERIAL #:	WC-58258-001	**KICK PAD:**	No
MODEL:		**STABILIZER:**	No
LOBE CFG:	7/8 4	**MOTOR HRS:**	42.92
BIT TO BEND:	8.41		

PUMP INFORMATION

PUMPS	PUMP 1	PUMP 2	PUMP 3
EFFICIENCY:	95.0%	95.0%	100.0%
S.P.M.:	0	0	0
STROKE VOLUME:	0.0 gal/stk	0.0 gal/stk	0.0 gal/stk
TOTAL FLOW RATE:	0 gal/min		
PUMP PRESSURE:	**OFF BTM:** 0 psi	**ON BTM:** 0 psi	

MUD INFORMATION

MUD TYPE:	Carbonox/Quik-T	**LIQUID BASE:**	Water		
DENSITY:	10.08 lb/gal	**TEMP:**	104 °F		
VISCOSITY:	55 sec/qt	**pH:**	10.1		
WTR LOSS:	6 cc/30min	**SAND:**	0.5	**LIQUID RATE:**	0 gal/min
PLAST VISC:	13 cP	**SOLIDS:**	11.7	**GAS TYPE:**	
YIELD PT:	15 lb/100 ft²	**OIL:**	0	**GAS RATE:**	0 cu ft/min

BIT INFORMATION

MANFCT: Baker **TYPE:** DP506FX **IADC BIT GRADE:** 2 / 2 / CT / G / X / I / CT / TD
NOZZLES: 0.902 in² TFA

REASON FOR BHA CHANGE

TD Surface Section.

FORMATION CHARACTERISTICS

All drilling was done in the green river formation, and appeared to cooperate while drilling. However tripping out of hole was a problem due to heavy clay in formation. We we're lucky to make it out of hole without gitting stuck

MWD COMMENTS

EM tool preformed as expected. At TD we still had a 3.0 signal.

SIDETRACKING PROCEDURE COMMENTS

NA

RECEIVED: Jan. 06, 2017

BHA Report

BHA 1 - Surface Section

Drilling Services
v4.2.2674

RUN SUMMARY

BHA performed as expected and met all expectations

RECEIVED: Jan. 06, 2017

Weatherford

BHA Report

BHA 2 - Intermediate Section

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Supervisor: Leon Castello
MWD Supervisor: Clint Greene

BHA SURVEY TYPE: Electromagnetic MWD
HOLE SIZE: 8.75 in

QTY	COMPONENT	MANFCT.	SERIAL #	MODEL	O.D.	I.D.	F.N.	BOT. CONN.	TOP CONN.	LEN.	C.LEN.
1	PDC Bit	Security	12396215	MM64D	8.75	0	0		4 1/2" REG Pin	1.00 ft	1.00 ft
1	Drilling Motor	Weatherford	675-3642	7857	7.76	0	3.32	4 1/2" REG Box	4 1/2" IF Box	32.54 ft	33.54 ft
1	6.75" NM Pony Colla		77484		6.4	3.31	0	4 1/2" IF Pin	4 1/2" IF Box	9.56 ft	43.10 ft
1	6.75" Double Pin		14442		6.82	3.25	0	4 1/2" IF	4 1/2" IF	1.74 ft	44.84 ft
1	6.75"Tool Carrier		675-36696		6.8	3.93	0	4 1/2" IF Box	4 1/2" IF Box	19.33 ft	64.17 ft
1	6.75"Emitter Sub		675-40872		6.8	2.875	0	4 1/2" IF Pin	4 1/2" IF Box	10.77 ft	74.94 ft
1	6.75"NMDC		675-26965		6.82	3.25	0	4 1/2" IF Pin	4 1/2" IF Box	28.13 ft	103.07 ft
1	6.75"X/O Sub		53940		6.87	2.81	0	4 1/2" IF Pin	4 1/2" XH Box	4.02 ft	107.09 ft
16	D.C	Precision #406			0	0	0			484.25 ft	591.34 ft
9	HWDP	Precision #404			0	0	0			272.90 ft	864.24 ft

(O.D. units are in; I.D. units are in; FNeck units are ft)

GENERAL INFORMATION

DATES RUN: 2014/12/06 TO 2014/12/11
DEPTH IN: 3415.00 ft
ANGLE IN: 0.00 °
DEPTH OUT: 7221.00 ft
ANGLE OUT: 0.00 °
DRILL HRS: 82.82
BUILD: 0.00 °
ORIENTING HRS: 22.50
HOLE MADE: 3806.00 ft
ROTATING HRS: 60.32
AVG R.O.P.: 45.96 ft/hr

MOTOR INFORMATION

MANFCT. Weatherford
SERIAL #: 675-3642
MODEL: 7857
LOBE CFG: 7/8
BIT TO BEND: 6.45
SETTING: 1.50 °
KICK PAD: No
STABILIZER: No
MOTOR HRS: 87.57

PUMP INFORMATION

PUMPS	PUMP 1	PUMP 2	PUMP 3
EFFICIENCY:	95.0%	95.0%	100.0%
S.P.M.:	102	102	0
STROKE VOLUME:	3.4944 gal/stk	3.4944 gal/stk	0.0 gal/stk
TOTAL FLOW RATE:	677.21387 gal/min		
PUMP PRESSURE:	OFF BTM: 2150 psi	ON BTM: 2600 psi	

MUD INFORMATION

MUD TYPE: Carbonox/Quik-T
LIQUID BASE: Water
DENSITY: 9.9 lb/gal
TEMP: 96 °F
VISCOSITY: 55 sec/qt
pH: 10.1
WTR LOSS: 5 cc/30min
SAND: 0.5
LIQUID RATE: 0 gal/min
PLAST VISC: 17 cP
SOLIDS: 9.7
GAS TYPE:
YIELD PT: 15 lb/100 ft²
OIL: 0
GAS RATE: 0 cu ft/min

BIT INFORMATION

MANFCT: Security
TYPE: MM64D
IADC BIT GRADE: 2 / 3 / RG / G / X / 1 / CT / PR
NOZZLES: 0.778 in² TFA

REASON FOR BHA CHANGE

Bit & Motor Trip due to Low ROP, per Company Rep.

FORMATION CHARACTERISTICS

There was nothing but sand and limestone coming over the shakers approaching the Mahogany Bench. We were losing angle at 8 tenths per hundred through the last 500' of the run. Not sure if it was due to formation or under gauged bit.

MWD COMMENTS

MWD tool preformed well. The tool is continuing to give us green frames in 1 amp. with limited noise.

RECEIVED: Jan. 06, 2017

BHA Report

Drilling Services
v4.2.2674

BHA 2 - Intermediate Section

SIDETRACKING PROCEDURE COMMENTS

NA

RUN SUMMARY

Tripped out of hole for slow P rate. The bit and mud motor appeared to be in fairly good condition, other than the bit being slightly under gauged.

RECEIVED: Jan. 06, 2017

Weatherford

BHA Report

BHA 3 - Intermediate Section

Drilling Services
v4.2.2674

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Supervisor: Leon Castello
MWD Supervisor: Dave Anderson

BHA SURVEY TYPE: Electromagnetic MWD
HOLE SIZE: 8.75 in

QTY	COMPONENT	MANFCT.	SERIAL #	MODEL	O.D.	I.D.	F.N.	BOT. CONN.	TOP CONN.	LEN.	C.LEN.
1	PDC Bit	Security	1217887	MM64D	8.75	0	0		4 1/2" REG Pin	1.00 ft	1.00 ft
1	Drilling Motor	Weatherford	675-1589	7857	7.75	0	3.36	4 1/2" REG Box	4 1/2" IF Box	32.57 ft	33.57 ft
1	6.75" NM Pony Colla		77484		6.4	3.31	0	4 1/2" IF Pin	4 1/2" IF Box	9.56 ft	43.13 ft
1	6.75" Double Pin		14442		6.82	3.25	0	4 1/2" IF	4 1/2" IF	1.74 ft	44.87 ft
1	6.75"Tool Carrier		675-36696		6.8	3.93	0	4 1/2" IF Box	4 1/2" IF Box	19.33 ft	64.20 ft
1	6.75"Emitter Sub		675-40872		6.8	2.875	0	4 1/2" IF Pin	4 1/2" IF Box	10.77 ft	74.97 ft
1	6.75"NMDC		675-26965		6.82	3.25	0	4 1/2" IF Pin	4 1/2" IF Box	28.13 ft	103.10 ft
1	6.75"X/O Sub		53940		6.87	2.81	0	4 1/2" IF Pin	4 1/2" XH Box	4.02 ft	107.12 ft
16	D.C	Precision #406			0	0	0			484.25 ft	591.37 ft
9	HWDP	Precision #404			0	0	0			272.90 ft	864.27 ft

(O.D. units are in; I.D. units are in; FNeck units are ft)

GENERAL INFORMATION

DATES RUN:	2014/12/12 TO 2014/12/16		
DEPTH IN:	7221.00 ft	**ANGLE IN:**	0.00 °
DEPTH OUT:	9696.00 ft	**ANGLE OUT:**	1.92 °
DRILL HRS:	55.75	**BUILD:**	1.92 °
ORIENTING HRS:	1.50	**HOLE MADE:**	2475.00 ft
ROTATING HRS:	54.25	**AVG R.O.P.:**	44.39 ft/hr

MOTOR INFORMATION

MANFCT.	Weatherford	**SETTING:**	1.50 °
SERIAL #:	675-1589	**KICK PAD:**	No
MODEL:	7857	**STABILIZER:**	No
LOBE CFG:	7/8	**MOTOR HRS:**	55.75
BIT TO BEND:	6.4		

PUMP INFORMATION

PUMPS	PUMP 1	PUMP 2	PUMP 3
EFFICIENCY:	95.0%	95.0%	100.0%
S.P.M.:	0	0	0
STROKE VOLUME:	0.0 gal/stk	0.0 gal/stk	0.0 gal/stk
TOTAL FLOW RATE:	0 gal/min		
PUMP PRESSURE:	**OFF BTM:** 0 psi	**ON BTM:** 0 psi	

MUD INFORMATION

MUD TYPE:	Carbonox/Quik-T	**LIQUID BASE:**	Water		
DENSITY:	10 lb/gal	**TEMP:**	95 °F		
VISCOSITY:	56 sec/qt	**pH:**	10.8		
WTR LOSS:	5 cc/30min	**SAND:**	0.5	**LIQUID RATE:**	0 gal/min
PLAST VISC:	20 cP	**SOLIDS:**	10.2	**GAS TYPE:**	
YIELD PT:	15 lb/100 ft²	**OIL:**	0	**GAS RATE:**	0 cu ft/min

BIT INFORMATION

MANFCT: Security **TYPE:** MM64D **IADC BIT GRADE:** 2 / 3 / BT / S / X / I / BT / RIG
NOZZLES: 0.778 in² TFA

REASON FOR BHA CHANGE

Top Drive Elevators broke, causing Drill String to fall 15'on to rotary table. Weatherford Reps and Company Rep agreed on changing the whole BHA assembly.

FORMATION CHARACTERISTICS

BHA held steady through the lower Green River formation. ROP stayed consistent, and formation was very cooperative dropping slightly every 100'.

MWD COMMENTS

MWD tool preformed well. The tool is continuing to give us green frames in 1 amp. with limited noise.

RECEIVED: Jan. 06, 2017

BHA Report

Drilling Services
v4.2.2674

BHA 3 - Intermediate Section

SIDETRACKING PROCEDURE COMMENTS

NA

RUN SUMMARY

Quill on swivle broke, causing Top Drive to fall 15' onto rotary table. Tripped out of hole to check BHA. Directional tools were still intact. The bit and mud motor appeared to have minimal damage, Bit had chipped and broken cutters but sill in gauge. Motor Drained well.

RECEIVED: Jan. 06, 2017

BHA Report

Drilling Services
v4.2.2674

BHA 4 - Intermediate Section

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Supervisor: Leon Castello
MWD Supervisor: Dave Anderson

BHA SURVEY TYPE: Electromagnetic MWD
HOLE SIZE: 8.75 in

QTY	COMPONENT	MANFCT.	SERIAL #	MODEL	O.D.	I.D.	F.N.	BOT. CONN.	TOP CONN.	LEN.	C.LEN.
1	PDC Bit	Security	12513515	MM64D	8.75	0	0		4 1/2" REG Pin	1.00 ft	1.00 ft
1	Drilling Motor	WFT	675-3759	QLE7857	7.75	0	3.32	4 1/2" REG Box	4 1/2" IF Box	32.56 ft	33.56 ft
1	6.75"NM Pony Collar		18314		6.47	3.81	0	4 1/2" IF Pin	4 1/2" IF Box	10.08 ft	43.64 ft
1	6.75"Double Pin		675-3711		0	3.25	0	4 1/2" IF Pin	4 1/2" IF Pin	1.55 ft	45.19 ft
1	6.75"Tool Carrier		675-15317		6.8	3.81	0	4 1/2" IF Box	4 1/2" IF Box	19.21 ft	64.40 ft
1	6.75"Emitter Sub		76004		6.78	2.875	0	4 1/2" IF Pin	4 1/2" IF Box	10.77 ft	75.17 ft
1	6.75"NMDC		675-37408		6.81	3.25	0	4 1/2" IF Pin	4 1/2" IF Box	28.84 ft	104.01 ft
1	6.75"X/O Sub		58275		6.88	2.81	0	4 1/2" IF Pin	4 1/2" IF Box	3.97 ft	107.98 ft
16	D.C	Precision #406			0	0	0			493.13 ft	601.11 ft
9	HWDP	Precision #404			0	0	0			272.90 ft	874.01 ft

(O.D. units are in; I.D. units are in; FNeck units are ft)

GENERAL INFORMATION

DATES RUN:	2014/12/16 TO 2014/12/19		
DEPTH IN:	9696.00 ft	**ANGLE IN:**	0.00 °
DEPTH OUT:	10009.00 ft	**ANGLE OUT:**	1.21 °
DRILL HRS:	5.75	**BUILD:**	1.21 °
ORIENTING HRS:	0.00	**HOLE MADE:**	313.00 ft
ROTATING HRS:	5.75	**AVG R.O.P.:**	54.43 ft/hr

MOTOR INFORMATION

MANFCT.	WFT	**SETTING:**	1.50 °
SERIAL #:	675-3759	**KICK PAD:**	No
MODEL:	QLE7857	**STABILIZER:**	No
LOBE CFG:	7/8	**MOTOR HRS:**	37.08
BIT TO BEND:	6.23		

PUMP INFORMATION

PUMPS	PUMP 1	PUMP 2	PUMP 3
EFFICIENCY:	95.0%	95.0%	100.0%
S.P.M.:	0	0	0
STROKE VOLUME:	0.0 gal/stk	0.0 gal/stk	0.0 gal/stk
TOTAL FLOW RATE:	0 gal/min		
PUMP PRESSURE:	**OFF BTM:** 0 psi	**ON BTM:** 0 psi	

MUD INFORMATION

MUD TYPE:	Carbonox/Quik-T	**LIQUID BASE:**	Water		
DENSITY:	11.6 lb/gal	**TEMP:**	95 °F		
VISCOSITY:	47 sec/qt	**pH:**	17		
WTR LOSS:	5 cc/30min	**SAND:**	0.5	**LIQUID RATE:**	0 gal/min
PLAST VISC:	17 cP	**SOLIDS:**	16.2	**GAS TYPE:**	
YIELD PT:	11 lb/100 ft²	**OIL:**	0	**GAS RATE:**	0 cu ft/min

BIT INFORMATION

MANFCT: Security **TYPE:** MM64D **IADC BIT GRADE:** 1 / 2 / NO / A / X / I / NO / TD
NOZZLES: 0.778 in² TFA

REASON FOR BHA CHANGE

TD Intermediate Section.

FORMATION CHARACTERISTICS

BHA held steady through the lower Green River formation. ROP stayed consistent, and formation was very cooperative dropping slightly every 100'

MWD COMMENTS

MWD Tool ran fine, Signal was 1.02 in 1 AMP. Min noise.

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BHA Report

Drilling Services
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BHA 4 - Intermediate Section

SIDETRACKING PROCEDURE COMMENTS

NA

RUN SUMMARY

The bit and mud motor had only 300' of rotation, they both looked re-runable. No damages or wear.

RECEIVED: Jan. 06, 2017

MOTOR REPORTS

RECEIVED: Jan. 06, 2017

Motor / RSS Evaluation Report

Weatherford

Drilling Services
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BHA 1 - Surface Section, Motor #WC-58258-001

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Supervisor: Leon Castello
MWD Supervisor: Rodney Gaines

BHA SURVEY TYPE: Electromagnetic MWD
HOLE SIZE: 12.25 in

GENERAL INFORMATION:

BHA #:	1	**START DEPTH:**	0.00 ft
DATE IN:	2014/12/01	**END DEPTH:**	3415.00 ft
DATE OUT:	2014/12/04	**HOLE MADE:**	3415.00 ft
ANGLE IN:	0.00 °	**AVG ROP:**	82.13 ft/hr
ANGLE OUT:	6.29 °		
ORIENTING HRS:	9.13	**ROTATING HRS:**	32.45

MOTOR INFORMATION:

MANFCT:	Hunting		
SERIAL #:	WC-58258-001		
MODEL:			
LOBE:	7/8 4	**BIT TO BEND:**	8.41 ft
SETTING:	1.50 °	**KICKPAD:**	No
		STABILIZER:	No

DRILLING INFORMATION:

BIT TYPE: DP506FX
IADC BIT GRADE: 2 / 2 / CT / G / X / I / CT / TD
BIT PRESS DROP: 0.00 psi
TOTAL FLOW RATE: 0.00 gal/min
PUMP PRESS: **(OFF)** 0.00 psi
MTR PRESS DROP: 0.00 psi
NOZZLES: 0.902 in² TFA
(ON) 0.00 psi

MUD INFORMATION:

(All units are imperial.)

MUD TYPE:	Carbonox/Quik-T	**LIQUID BASE:**	Water		
DENSITY:	10 lb/gal	**VISCOSITY:**	55 sec/qt		
SAND:	0.500	**WATER LOSS:**	6.00 cc/30min	**LIQUID RATE:**	0.00 gal/min
SOLIDS:	11.700	**PLASTIC VISC:**	13.0 cP	**GAS TYPE:**	
OIL:	0.000	**YIELD POINT:**	15.0 lb/100 ft²	**GAS RATE:**	0.00 cu ft/min
TEMP:	104 °F	**pH:**	10.1		

TIME INFORMATION:

CIRCULATING HOURS:	1.33
REAMING HOURS:	0.00
TIME DRILL HOURS:	0.00
MOTOR DRILL HOURS:	41.58
MOTOR HOURS THIS RUN:	42.92
PREVIOUS HOURS:	0.00
TOTAL MOTOR HOURS:	42.92
TOTAL BRT HOURS:	42.92

MOTOR EVALUATION COMMENTS:

Hunting 7/8 4.0 1.5° .17 rev/galfixed, WC-58258-001

REASON FOR BHA CHANGE:

TD Surface Section.

COMMENTS FROM LAST DAY RAN:

Standby

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Motor / RSS Evaluation Report

Weatherford

Drilling Services
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BHA 2 - Intermediate Section, Motor #675-3642

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Supervisor: Leon Castello
MWD Supervisor: Clint Greene

BHA SURVEY TYPE: Electromagnetic MWD
HOLE SIZE: 8.75 in

GENERAL INFORMATION:

BHA #:	2	**START DEPTH:**	3415.00 ft
DATE IN:	2014/12/06	**END DEPTH:**	7221.00 ft
DATE OUT:	2014/12/11	**HOLE MADE:**	3806.00 ft
ANGLE IN:	0.00 °	**AVG ROP:**	45.96 ft/hr
ANGLE OUT:	0.00 °		
ORIENTING HRS:	22.50	**ROTATING HRS:**	60.32

MOTOR INFORMATION:

MANFCT:	Weatherford		
SERIAL #:	675-3642		
MODEL:	7857		
LOBE:	7/8	**BIT TO BEND:**	6.45 ft
SETTING:	1.50 °	**KICKPAD:**	No
		STABILIZER:	No

DRILLING INFORMATION:

BIT TYPE: MM64D
IADC BIT GRADE: 2 / 3 / RG / G / X / 1 / CT / PR
BIT PRESS DROP: 0.00 psi
TOTAL FLOW RATE: 677.21 gal/min
PUMP PRESS: **(OFF)** 2150.00 psi
MTR PRESS DROP: 0.00 psi
NOZZLES: 0.778 in² TFA
(ON) 2600.00 psi

MUD INFORMATION:

(All units are imperial.)

MUD TYPE:	Carbonox/Quik-T	**LIQUID BASE:**	Water		
DENSITY:	10 lb/gal	**VISCOSITY:**	55 sec/qt		
SAND:	0.500	**WATER LOSS:**	5.00 cc/30min	**LIQUID RATE:**	0.00 gal/min
SOLIDS:	9.700	**PLASTIC VISC:**	17.0 cP	**GAS TYPE:**	
OIL:	0.000	**YIELD POINT:**	15.0 lb/100 ft²	**GAS RATE:**	0.00 cu ft/min
TEMP:	96 °F	**pH:**	10.1		

TIME INFORMATION:

CIRCULATING HOURS:	4.75
REAMING HOURS:	0.00
TIME DRILL HOURS:	0.00
MOTOR DRILL HOURS:	82.82
MOTOR HOURS THIS RUN:	87.57
PREVIOUS HOURS:	0.00
TOTAL MOTOR HOURS:	87.57
TOTAL BRT HOURS:	87.57

MOTOR EVALUATION COMMENTS:

6.75" WFT Motor~7/8 Lobe, 5.7 Stage~1.5° fixed~ 0.23 RPG.
8.75" Security~MM64D~6x13 Jets~0.7777 TFA

REASON FOR BHA CHANGE:

Bit & Motor Trip due to Low ROP, per Company Rep.

COMMENTS FROM LAST DAY RAN:

Drilled From 7080' To 7221'
Rotate & Slide as needed.
Company Rep made the call to Bit and Motor Trip due to low ROP.
Circ Bottoms up, POOH For Bit and Motor.
Changed out Bit & Motor, RIH.

RECEIVED: Jan. 06, 2017

Motor / RSS Evaluation Report

Weatherford

Drilling Services
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BHA 3 - Intermediate Section, Motor #675-1589

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Supervisor: Leon Castello
MWD Supervisor: Dave Anderson

BHA SURVEY TYPE: Electromagnetic MWD
HOLE SIZE: 8.75 in

GENERAL INFORMATION:

BHA #:	3	**START DEPTH:**	7221.00 ft
DATE IN:	2014/12/12	**END DEPTH:**	9696.00 ft
DATE OUT:	2014/12/16	**HOLE MADE:**	2475.00 ft
ANGLE IN:	0.00 °	**AVG ROP:**	44.39 ft/hr
ANGLE OUT:	1.92 °		
ORIENTING HRS:	1.50	**ROTATING HRS:**	54.25

MOTOR INFORMATION:

MANFCT:	Weatherford		
SERIAL #:	675-1589		
MODEL:	7857		
LOBE:	7/8	**BIT TO BEND:**	6.4 ft
SETTING:	1.50 °	**KICKPAD:**	No
		STABILIZER:	No

DRILLING INFORMATION:

BIT TYPE: MM64D
IADC BIT GRADE: 2 / 3 / BT / S / X / I / BT / RIG
BIT PRESS DROP: 0.00 psi
TOTAL FLOW RATE: 0.00 gal/min
PUMP PRESS: **(OFF)** 0.00 psi
MTR PRESS DROP: 0.00 psi
NOZZLES: 0.778 in² TFA
(ON) 0.00 psi

MUD INFORMATION:

(All units are imperial.)

MUD TYPE:	Carbonox/Quik-T	**LIQUID BASE:**	Water		
DENSITY:	10 lb/gal	**VISCOSITY:**	56 sec/qt		
SAND:	0.500	**WATER LOSS:**	5.00 cc/30min	**LIQUID RATE:**	0.00 gal/min
SOLIDS:	10.200	**PLASTIC VISC:**	20.0 cP	**GAS TYPE:**	
OIL:	0.000	**YIELD POINT:**	15.0 lb/100 ft²	**GAS RATE:**	0.00 cu ft/min
TEMP:	95 °F	**pH:**	10.8		

TIME INFORMATION:

CIRCULATING HOURS:	0.00
REAMING HOURS:	0.00
TIME DRILL HOURS:	0.00
MOTOR DRILL HOURS:	55.75
MOTOR HOURS THIS RUN:	55.75
PREVIOUS HOURS:	0.00
TOTAL MOTOR HOURS:	55.75
TOTAL BRT HOURS:	55.75

MOTOR EVALUATION COMMENTS:

6.75" WFT Motor~7/8 Lobe, 5.7 Stage~1.5° fixed~ 0.23 RPG. 8.75" Security~MM64D~6x13 Jets~0.7777 TFA

REASON FOR BHA CHANGE:

Top Drive Elevators broke, causing Drill String to fall 15'on to rotary table. Weatherford Reps and Company Rep agreed on changing the whole BHA assembly.

COMMENTS FROM LAST DAY RAN:

LD Directional Tools, Pick Up new BHA.
RIH with BHA 4 and New Rig Drill Collars.
Drilled from 9696' to 9709'.

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Motor / RSS Evaluation Report

Weatherford

Drilling Services
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BHA 4 - Intermediate Section, Motor #675-3759

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404
WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:
SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Supervisor: Leon Castello
MWD Supervisor: Dave Anderson

BHA SURVEY TYPE: Electromagnetic MWD
HOLE SIZE: 8.75 in

GENERAL INFORMATION:

BHA #:	4	**START DEPTH:**	9696.00 ft
DATE IN:	2014/12/16	**END DEPTH:**	10009.00 ft
DATE OUT:	2014/12/19	**HOLE MADE:**	313.00 ft
ANGLE IN:	0.00 °	**AVG ROP:**	54.43 ft/hr
ANGLE OUT:	1.21 °		
ORIENTING HRS:	0.00	**ROTATING HRS:**	5.75

MOTOR INFORMATION:

MANFCT:	WFT		
SERIAL #:	675-3759		
MODEL:	QLE7857		
LOBE:	7/8	**BIT TO BEND:**	6.23 ft
SETTING:	1.50 °	**KICKPAD:**	No
		STABILIZER:	No

DRILLING INFORMATION:

BIT TYPE: MM64D
IADC BIT GRADE: 1 / 2 / NO / A / X / I / NO / TD
BIT PRESS DROP: 0.00 psi
TOTAL FLOW RATE: 0.00 gal/min
PUMP PRESS: **(OFF)** 0.00 psi
MTR PRESS DROP: 0.00 psi
NOZZLES: 0.778 in² TFA
(ON) 0.00 psi

MUD INFORMATION:

(All units are imperial.)

MUD TYPE:	Carbonox/Quik-T	**LIQUID BASE:**	Water		
DENSITY:	12 lb/gal	**VISCOSITY:**	47 sec/qt		
SAND:	0.500	**WATER LOSS:**	5.00 cc/30min	**LIQUID RATE:**	0.00 gal/min
SOLIDS:	16.200	**PLASTIC VISC:**	17.0 cP	**GAS TYPE:**	
OIL:	0.000	**YIELD POINT:**	11.0 lb/100 ft²	**GAS RATE:**	0.00 cu ft/min
TEMP:	95 °F	**pH:**	17.0		

TIME INFORMATION:

CIRCULATING HOURS:	31.33
REAMING HOURS:	0.00
TIME DRILL HOURS:	0.00
MOTOR DRILL HOURS:	5.75
MOTOR HOURS THIS RUN:	37.08
PREVIOUS HOURS:	0.00
TOTAL MOTOR HOURS:	37.08
TOTAL BRT HOURS:	37.08

MOTOR EVALUATION COMMENTS:

6.75" WFT Motor~7/8 Lobe, 5.7 Stage~1.5° fixed~ 0.23 RPG. 8.75" Security~MM64D~6x13 Jets~0.7777 TFA

REASON FOR BHA CHANGE:

TD Intermediate Section.

COMMENTS FROM LAST DAY RAN:

POOH, LD Directional Tools. Load Truck and Travel Home.

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SLIDE SHEET REPORTS

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Slide Sheet Report

Drilling Services
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BHA 1 - 2014/12/01 TO 2014/12/04

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404

WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:

SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Supervisor: Leon Castello
MWD Supervisor: Rodney Gaines

BHA NO: 1 **DATES RUN:** 2014/12/01 TO 2014/12/04 **SECTION:** Surface **TOOLFACE OFFSET:** 276 ° **SURVEY OFFSET:** 71 ft
MOTOR SETTING: 1.50 ° **KICKPAD:** No **STABILIZER:** No **MODEL:** **SERIAL NO:** WC-58258-001 **BHA SURVEY TYPE:** Electromagnetic MWD

(Distances are shown in feet.)

BIT DEPTH	DRILLED	SURVEY DEPTH	INC	AZM	TF	ORIENTING FROM	ORIENTING TO	ORIENTING FEET	ROTATING FROM	ROTATING TO	ROTATING FEET	SLIDE SEEN	BUR /ft	BUR /100ft	COMMENTS
807.00	217.00	736.00	0.00	0.00		807.00	807.00	0.00	807.00	1024.00	217.00	0.00	0.00	0.00	
1024.00	93.00	953.00	2.01	175.88	250M	1024.00	1044.00	20.00	1044.00	1117.00	73.00	0.00	0.00	0.93	
1117.00	93.00	1046.00	2.41	215.00	300M	1117.00	1147.00	30.00	1147.00	1210.00	63.00	20.00	0.02	0.43	
1210.00	93.00	1139.00	2.17	250.08	0M	1210.00	1245.00	35.00	1245.00	1303.00	58.00	22.00	-0.01	-0.26	
1303.00	186.00	1232.00	1.23	275.24	90M	1303.00	1323.00	20.00	1323.00	1489.00	166.00	30.00	-0.03	-1.01	
1489.00	93.00	1418.00	1.50	249.75	230M	1489.00	1514.00	25.00	1514.00	1582.00	68.00	33.00	0.01	0.15	
1582.00	94.00	1511.00	3.12	234.82	220M	1582.00	1612.00	30.00	1612.00	1676.00	64.00	22.00	0.07	1.74	
1676.00	93.00	1605.00	4.11	232.41	0G	1676.00	1691.00	15.00	1691.00	1769.00	78.00	26.00	0.04	1.05	
1769.00	93.00	1698.00	5.28	232.41	20R	1769.00	1784.00	15.00	1784.00	1862.00	78.00	22.00	0.05	1.26	
1862.00	280.00	1791.00	5.78	238.24	10R	1862.00	1877.00	15.00	1877.00	2142.00	265.00	15.00	0.03	0.54	
2142.00	93.00	2071.00	5.77	238.83	10R	2142.00	2157.00	15.00	2157.00	2235.00	78.00	15.00	0.00	0.00	
2235.00	93.00	2164.00	6.23	241.53	10R	2235.00	2255.00	20.00	2255.00	2328.00	73.00	15.00	0.03	0.49	
2328.00	187.00	2257.00	7.44	241.80	0G	2328.00	2348.00	20.00	2348.00	2515.00	167.00	20.00	0.06	1.30	
2515.00	93.00	2444.00	6.92	241.06	170L	2515.00	2530.00	15.00	2530.00	2608.00	78.00	20.00	-0.03	-0.28	
2608.00	465.00	2537.00	6.19	240.54	160L	2608.00	2620.00	12.00	2620.00	3073.00	453.00	15.00	-0.05	-0.78	
3073.00	93.00	3002.00	6.59	241.91	212L	3073.00	3088.00	15.00	3088.00	3166.00	78.00	12.00	0.03	0.09	
3166.00	187.00	3095.00	6.34	241.86	212L	3166.00	3186.00	20.00	3186.00	3353.00	167.00	15.00	-0.02	-0.27	
3353.00	62.00	3282.00	5.77	238.61	0G	3353.00	3368.00	15.00	3368.00	3415.00	47.00	20.00	-0.03	-0.30	
3415.00	0.00	3344.00	6.29	239.35	TD	3415.00	3415.00	0.00	3415.00	3415.00	0.00	0.00	0.00	0.84	

Totals:	337.00 ft	2271.00 ft
Percentages:	12.9%	87.1%
Time:	9.13 hrs	32.45 hrs
Percentages:	22.0%	78.0%

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Slide Sheet Report

Drilling Services
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BHA 2 - 2014/12/06 TO 2014/12/11

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404

WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:

SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Supervisor: Leon Castello
MWD Supervisor: Clint Greene

BHA NO: 2 **DATES RUN:** 2014/12/06 TO 2014/12/11 **SECTION:** Intermedia **TOOLFACE OFFSET:** 56 ° **SURVEY OFFSET:** 64 ft
MOTOR SETTING: 1.50 ° **KICKPAD:** No **STABILIZER:** No **MODEL:** 7857 **SERIAL NO:** 675-3642 **BHA SURVEY TYPE:** Electromagnetic MWD

(Distances are shown in feet.)

BIT DEPTH	DRILLED	SURVEY DEPTH	INC	AZM	TF	ORIENTING FROM	ORIENTING TO	ORIENTING FEET	ROTATING FROM	ROTATING TO	ROTATING FEET	SLIDE SEEN	BUR /ft	BUR /100ft	COMMENTS
3415.00	243.00	3351.00	0.00	0.00		3415.00	3415.00	0.00	3415.00	3658.00	243.00	0.00	0.00	0.00	
3658.00	466.00	3594.00	7.78	239.56	0G	3658.00	3673.00	15.00	3673.00	4124.00	451.00	0.00	0.00	3.20	
4124.00	466.00	4060.00	7.45	240.28	20R	4124.00	4139.00	15.00	4139.00	4590.00	451.00	15.00	-0.02	-0.07	
4590.00	1025.00	4526.00	7.94	232.20	0G	4590.00	4608.00	18.00	4608.00	5615.00	1007.00	15.00	0.03	0.11	
5615.00	93.00	5551.00	6.60	236.75	30R	5615.00	5633.00	18.00	5633.00	5708.00	75.00	18.00	-0.07	-0.13	
5708.00	373.00	5644.00	8.01	238.73	10R	5708.00	5733.00	25.00	5733.00	6081.00	348.00	18.00	0.08	1.52	
6081.00	93.00	6017.00	5.90	239.31	10R	6081.00	6106.00	25.00	6106.00	6174.00	68.00	25.00	-0.08	-0.57	
6174.00	186.00	6110.00	7.07	237.62	0G	6174.00	6204.00	30.00	6204.00	6360.00	156.00	25.00	0.05	1.26	
6360.00	93.00	6296.00	6.41	230.42	0G	6360.00	6390.00	30.00	6390.00	6453.00	63.00	30.00	-0.02	-0.35	
6453.00	93.00	6389.00	6.88	226.43	10R	6453.00	6483.00	30.00	6483.00	6546.00	63.00	29.00	0.02	0.51	
6546.00	94.00	6482.00	7.71	219.56	20R	6546.00	6571.00	25.00	6571.00	6640.00	69.00	30.00	0.03	0.89	
6640.00	93.00	6576.00	7.32	220.89	45R	6640.00	6655.00	15.00	6655.00	6733.00	78.00	26.00	-0.01	-0.41	
6733.00	93.00	6669.00	6.86	223.13	90R	6733.00	6748.00	15.00	6748.00	6826.00	78.00	15.00	-0.03	-0.49	
6826.00	186.00	6762.00	6.91	221.89	10R	6826.00	6846.00	20.00	6846.00	7012.00	166.00	15.00	0.00	0.05	
7012.00	93.00	6948.00	5.08	222.06	50R	7012.00	7037.00	25.00	7037.00	7105.00	68.00	20.00	-0.09	-0.98	
7105.00	94.00	7041.00	4.48	224.46	50R	7105.00	7130.00	25.00	7130.00	7199.00	69.00	25.00	-0.02	-0.65	
7199.00	22.00	7135.00	4.75	224.46	50R	7199.00	7229.00	30.00	7229.00	7221.00	-8.00	25.00	0.01	0.29	
7221.00	0.00	7157.00	0.00	0.00		7221.00	7221.00	0.00	7221.00	7221.00	0.00	0.00	0.00	-21.59	

Totals:	361.00 ft	3445.00 ft
Percentages:	9.5%	90.5%
Time:	22.50 hrs	60.32 hrs
Percentages:	27.2%	72.8%

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Slide Sheet Report

Drilling Services
v4.2.2674

BHA 3 - 2014/12/12 TO 2014/12/16

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404

WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:

SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Supervisor: Leon Castello
MWD Supervisor: Dave Anderson

BHA NO: 3 **DATES RUN:** 2014/12/12 TO 2014/12/16 **SECTION:** Intermedia **TOOLFACE OFFSET:** 313 ° **SURVEY OFFSET:** 64 ft
MOTOR SETTING: 1.50 ° **KICKPAD:** No **STABILIZER:** No **MODEL:** 7857 **SERIAL NO:** 675-1589 **BHA SURVEY TYPE:** Electromagnetic MWD

(Distances are shown in feet.)

BIT DEPTH	DRILLED	SURVEY DEPTH	INC	AZM	TF	ORIENTING FROM	ORIENTING TO	ORIENTING FEET	ROTATING FROM	ROTATING TO	ROTATING FEET	SLIDE SEEN	BUR /ft	BUR /100ft	COMMENTS
7221.00	257.00	7157.00	0.00	0.00		7221.00	7221.00	0.00	7221.00	7478.00	257.00	0.00	0.00	0.00	
7478.00	93.00	7414.00	3.34	222.20	150G	7478.00	7488.00	10.00	7488.00	7571.00	83.00	0.00	0.00	1.30	
7571.00	2125.00	7507.00	1.92	175.96	180G	7571.00	7581.00	10.00	7581.00	9696.00	2115.00	10.00	-0.14	-1.53	

Totals:	20.00 ft	2455.00 ft
Percentages:	0.8%	99.2%
Time:	1.50 hrs	54.25 hrs
Percentages:	2.7%	97.3%

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Slide Sheet Report

Drilling Services
v4.2.2674

BHA 4 - 2014/12/16 TO 2014/12/19

FILE #: 10586535
JOB TYPE: S-Well
RIG & NO: Precision 404

WELL NAME: Hamaker 3-25A1
COMPANY: EP Energy
SURFACE LOCATION:

SERVICE CO.: Weatherford
SURVEY TYPE: EM MWD
FIELD / LOCATION: Roosevelt / Utah / USA

DIR Supervisor: Leon Castello
MWD Supervisor: Dave Anderson

BHA NO: 4 **DATES RUN:** 2014/12/16 TO 2014/12/19 **SECTION:** Intermedia **TOOLFACE OFFSET:** 50 ° **SURVEY OFFSET:** 64 ft
MOTOR SETTING: 1.50 ° **KICKPAD:** No **STABILIZER:** No **MODEL:** QLE7857 **SERIAL NO:** 675-3759 **BHA SURVEY TYPE:** Electromagnetic MWD

(Distances are shown in feet.)

BIT DEPTH	DRILLED	SURVEY DEPTH	INC	AZM	TF	ORIENTING FROM	ORIENTING TO	ORIENTING FEET	ROTATING FROM	ROTATING TO	ROTATING FEET	SLIDE SEEN	BUR /ft	BUR /100ft	COMMENTS
9696.00	313.00	9632.00	0.00	0.00		9696.00	9696.00	0.00	9696.00	10009.00	313.00	0.00	0.00	0.00	
10009.00	0.00	9945.00	1.21	148.95	TD	10009.00	10009.00	0.00	10009.00	10009.00	0.00	0.00	0.00	0.39	

Totals:	0.00 ft	313.00 ft
Percentages:	0.0%	100.0%
Time:	0.00 hrs	5.75 hrs
Percentages:	0.0%	100.0%

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