

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 Carman 2-36C5				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT				
4. TYPE OF WELL Oil Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR EP ENERGY E&P COMPANY, L.P.						7. OPERATOR PHONE 713 997-5038				
8. ADDRESS OF OPERATOR 1001 Louisiana, Houston, TX, 77002						9. OPERATOR E-MAIL maria.gomez@epenergy.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Calvin E. Carman Trust U/D/T						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-628-5373				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 1772 W Grandview Dr, St George, UT 84770						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		1603 FNL 1579 FEL		SWNE	36	3.0 S	5.0 W	U		
Top of Uppermost Producing Zone		1603 FNL 1579 FEL		SWNE	36	3.0 S	5.0 W	U		
At Total Depth		1603 FNL 1579 FEL		SWNE	36	3.0 S	5.0 W	U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1579			23. NUMBER OF ACRES IN DRILLING UNIT 640				
27. ELEVATION - GROUND LEVEL 5726			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1200			26. PROPOSED DEPTH MD: 10800 TVD: 10800				
28. BOND NUMBER 400JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City							
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	9.625	0 - 1500	40.0	N-80 LT&C	0.0	Type V	173	3.18	11.0
							Class G	231	1.3	14.3
I1	8.75	7	0 - 7850	29.0	HCP-110 LT&C	10.0	Class G	446	1.91	12.5
							Class G	292	1.64	13.0
L1	6.125	5	7650 - 10800	18.0	HCP-110 LT&C	12.0	Class G	187	1.47	14.2
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Maria S. Gomez			TITLE Principal Regulatory Analyst			PHONE 713 997-5038				
SIGNATURE			DATE 08/04/2014			EMAIL maria.gomez@epenergy.com				
API NUMBER ASSIGNED 43013530950000			APPROVAL			 Permit Manager				

**Carman 2-36C5
Sec. 36, T3S, R5W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,043' TVD
Green River (GRTN1)	3,743' TVD
Mahogany Bench	4,643' TVD
L. Green River	5,843' TVD
Wasatch	7,743' TVD
T.D. (Permit)	10,800' TVD

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	3,043' MD / TVD
	Green River (GRTN1)	3,743' MD / TVD
	Mahogany Bench	4,643' MD / TVD
Oil	L. Green River	5,843' MD / TVD
Oil	Wasatch	7,743' MD / TVD

3. Pressure Control Equipment: (Schematic Attached)

A Diverter System from 60' MD/TVD to 1,500' MD/TVD on Conductor. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 1,500' MD/TVD to 7,850' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 7,850' MD/TVD to TD (10,800' MD/TVD).

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

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly

cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with 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 1,500' - TD
- B) Mud logger with gas monitor – 1,500' to TD (10,800' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

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

Please refer to the attached Wellbore Diagram.

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

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

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

5. **Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	Air	Air
Intermediate	WBM	9.0 – 10.0
Production	WBM	10.5 – 12.0

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: 1,500' MD/TVD – TD (10,800' MD/TVD)

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

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,800' TVD equals approximately 6,739 psi. This is calculated based on a 0.624 psi/ft gradient (12.0 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,363 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 7,850' TVD = 6,280 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 4,363 psi.

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

DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
SURFACE	9-5/8"	0	1500	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	7850	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	7650	10800	18.00	HCP-110	STL	13,940	15,450	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	Lead	900	EXTENDACEM SYSTEM: Type V Cement + 5 lbm/sk Silicalite Compacted + 0.25 lbm/sk Kwik Seal + 0.125 lbm/sk Poly-E-Flake + 8% Bentonite + 0.3% D-AIR 5000	173	75%	11.0 ppg	3.18
	Tail	600	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	231	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	4,450	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	446	30%	12.5 ppg	1.91
	Tail	2,400	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	292	30%	13.0 ppg	1.64
PRODUCTION LINER		3,150	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	187	25%	14.2 ppg	1.47

FLOAT EQUIPMENT & CENTRALIZERS	
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 5,800'.
LINER	Float shoe, 1 joint, float collar, 1 joint, landing collar. Thread lock all FE. Maker joints every 1000'.

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

MANAGER: Bob Dodd

EP ENERGY E&P COMPANY, L.P.
CARMAN 2-36C5
SECTION 36, T3S, R5W, U.S.B.&M.

PROCEED NORTH ON STATE ROAD 87 FROM THE INTERSECTION OF STATE ROAD 87 WITH US HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 1.18 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL SOUTHEASTERLY THEN NEASTERLY THEN NORTHEASTERLY ON A COUNTY B ROAD 0.31 MILES TO THE BEGINNING OF THE ACCESS ROAD;

TURN LEFT AND TRAVEL NORTHERLY FOLLOWING THE ROAD FLAGS 0.01 MILES TO THE PROPOSED LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 1.50 MILES.

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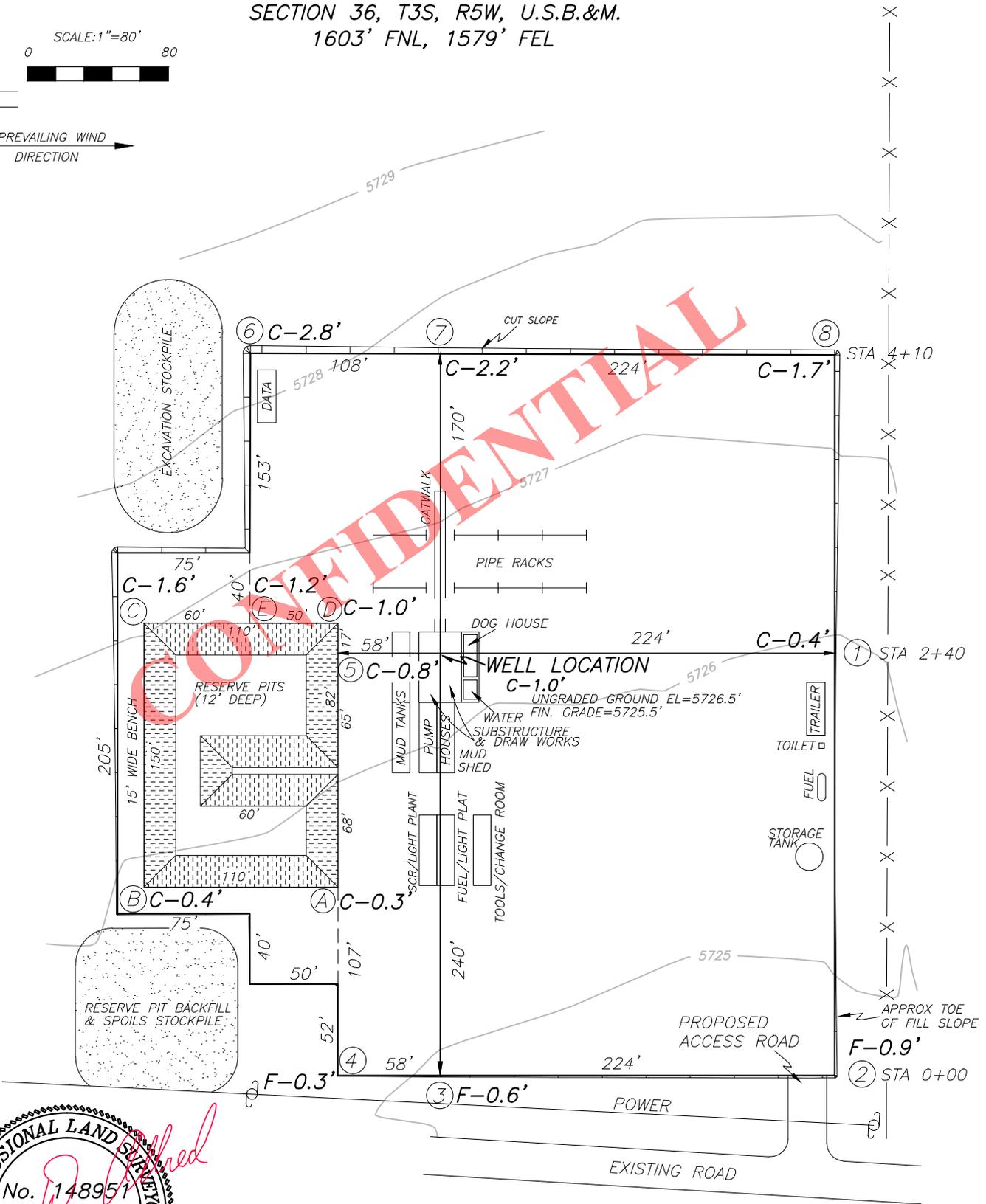
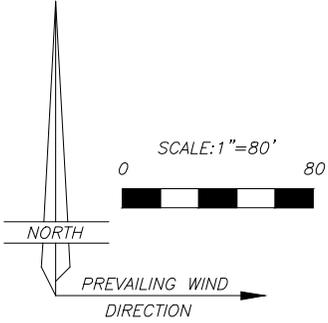
FIGURE #1

LOCATION LAYOUT FOR

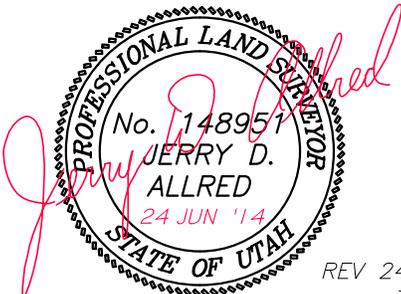
CARMAN 2-36C5

SECTION 36, T3S, R5W, U.S.B.&M.

1603' FNL, 1579' FEL

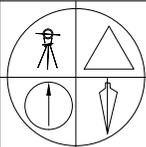


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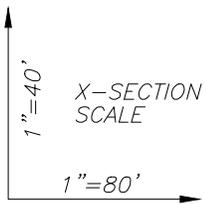
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DUCHESNE, UTAH 84021
(435) 738-5352

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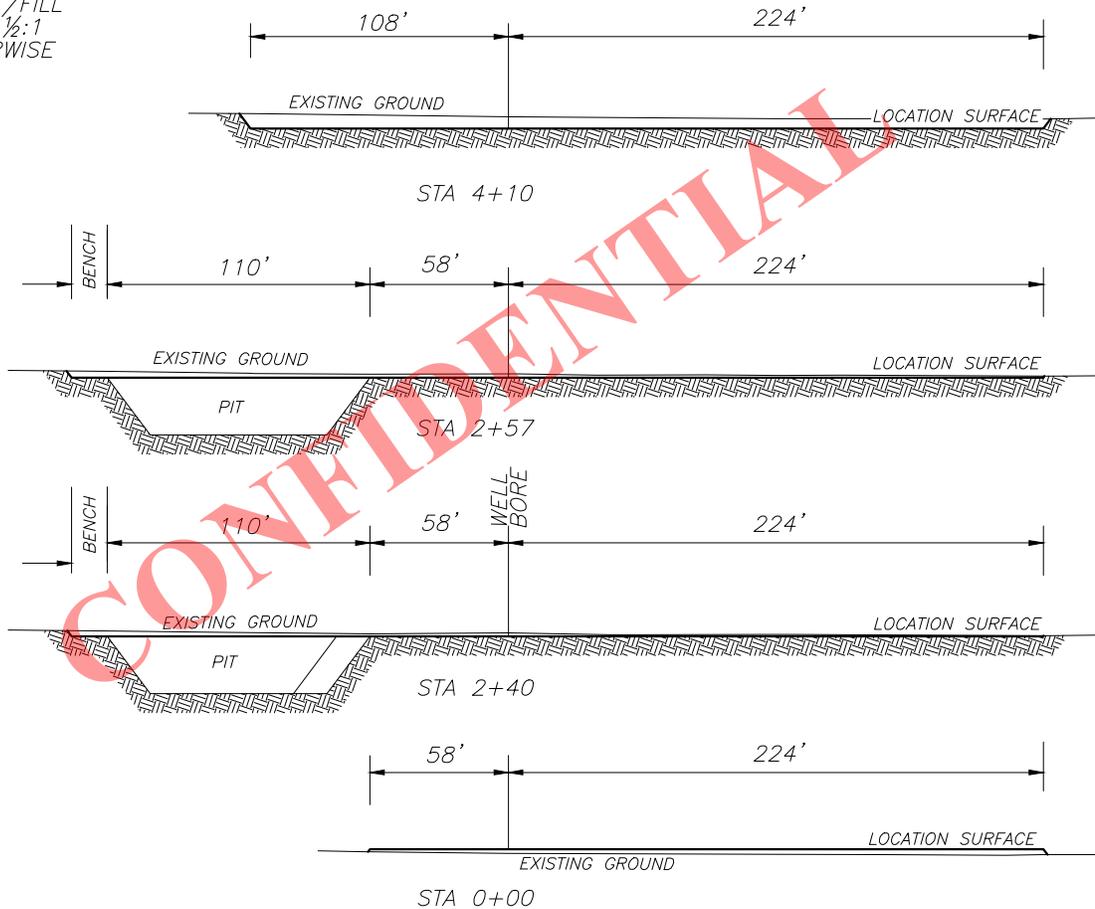
EP ENERGY E&P COMPANY, L.P.

FIGURE #2

LOCATION LAYOUT FOR
 CARMAN 2-36C5
 SECTION 36, T3S, R5W, U.S.B.&M.
 1603' FNL, 1579' FEL



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



APPROXIMATE YARDAGES

TOTAL CUT (INCLUDING PIT) = 9833 CU. YDS.

PIT CUT = 4955 CU. YDS.
 TOPSOIL STRIPPING: (6") = 2808 CU. YDS.
 REMAINING LOCATION CUT = 2070 CU. YDS

TOTAL FILL = 1140 CU. YDS.

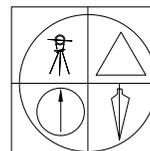
LOCATION SURFACE GRAVEL=1819 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=13 CU. YDS.



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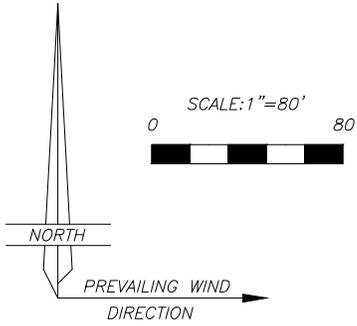
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EP ENERGY E&P COMPANY, L.P.

FIGURE #3

LOCATION LAYOUT FOR
CARMAN 2-36C5

SECTION 36, T3S, R5W, U.S.B.&M.
1603' FNL, 1579' FEL

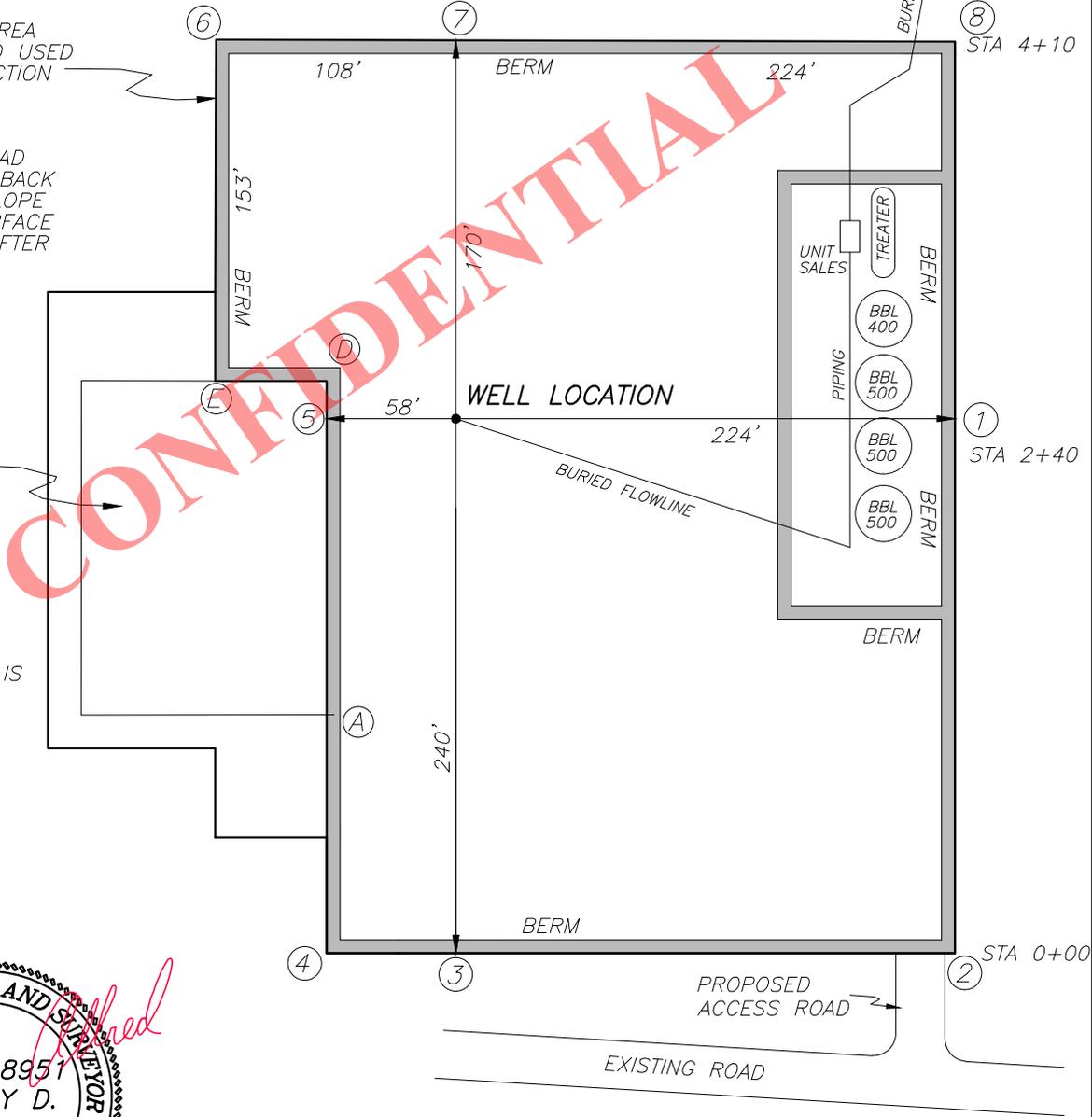


WELL PAD AREA
BERMED AND USED
FOR PRODUCTION

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

PIT AREA REGRADED
BACK TO SLOPE FOR
INTERIM RECLAMATION

FINAL ACREAGE OF WELL
PAD AFTER RECLAMATION IS
3.29 Acres



Jerry D. Allred

PROFESSIONAL LAND SURVEYOR
No. 148951
JERRY D. ALLRED
24 JUN '14
STATE OF UTAH

REV 24 JUN 2014
7 FEB 2014

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LOCATION USE AREA AND PIPELINE
CORRIDOR RIGHT-OF-WAY SURVEY FOR
EP ENERGY E&P COMPANY, L.P.
CARMAN 2-36C5
SECTIONS 25 & 36, T3S, R5W, U.S.B.&M.
DUCHESNE COUNTY, UTAH

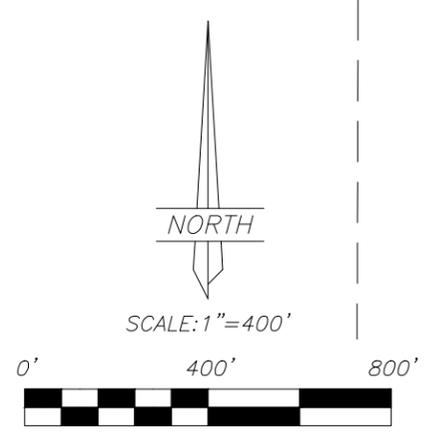
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 DUCHESNE, UTAH 84021
 (435) 738-5352

USE AREA BOUNDARY DESCRIPTION

Commencing at the East 1/4 Corner of Section 36, Township 3 South, Range 5 West of the Uintah Special Base and Meridian;
 Thence North 60°24'01" West 1528.35 feet to the TRUE POINT OF BEGINNING;
 Thence North 89°50'13" West 466.80 feet;
 Thence North 00°09'47" East 460.00 feet;
 Thence South 89°50'13" East 467.00 feet;
 Thence South 00°11'18" West 460.00 feet to the TRUE POINT OF BEGINNING, containing 4.93 acres.

S 89°57'40" W 2634.96'
(TO COMPUTED SECTION CORNER)

LINE	BEARING	DISTANCE
L1	N 89°50'13" W	466.80'
L2	N 00°09'47" E	460.00'
L3	S 89°50'13" E	467.00'
L4	S 00°11'18" W	460.00'
L5	N 03°28'26" E	87.82'
L6	N 00°11'18" E	174.39'
L7	N 45°00'00" E	57.32'
L8	N 00°18'55" W	1106.15'
L9	N 00°35'52" E	555.76'
L10	N 23°39'04" E	70.11'



S 89°47'14" W 5291.79'
(TO 1/4 COR. TIE ONLY)

PIPELINE RIGHT-OF-WAY DESCRIPTION

A 40 feet wide pipeline right-of-way over portions of Sections 25 and 36, Township 3 South, Range 5 West, of the Uintah Special Base and Meridian, the centerline of which is further described as follows:

Commencing at the East 1/4 Corner of said Section 36,
 Thence North 47°57'33" West 1814.30 feet to the TRUE POINT OF BEGINNING, said point being on the North line of the EP Energy E&P Company, L.P. Carman 2-36C5 well location surface use area boundary;
 Thence North 03°28'26" East 87.82 feet;
 Thence North 00°11'18" East 174.39 feet;
 Thence North 45°00'00" East 57.32 feet;
 Thence North 00°18'55" West 1106.15 feet;
 Thence North 00°35'52" East 555.76 feet;
 Thence North 23°39'04" East 70.11 feet to the South line of the EP Energy E&P Company L.P. Moon 3-25C5 well location surface use area boundary.
 Said right-of-way being 2051.55 feet in length with the sidelines being shortened or elongated to intersect property and said use area boundary lines.

SURVEYOR'S CERTIFICATE

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

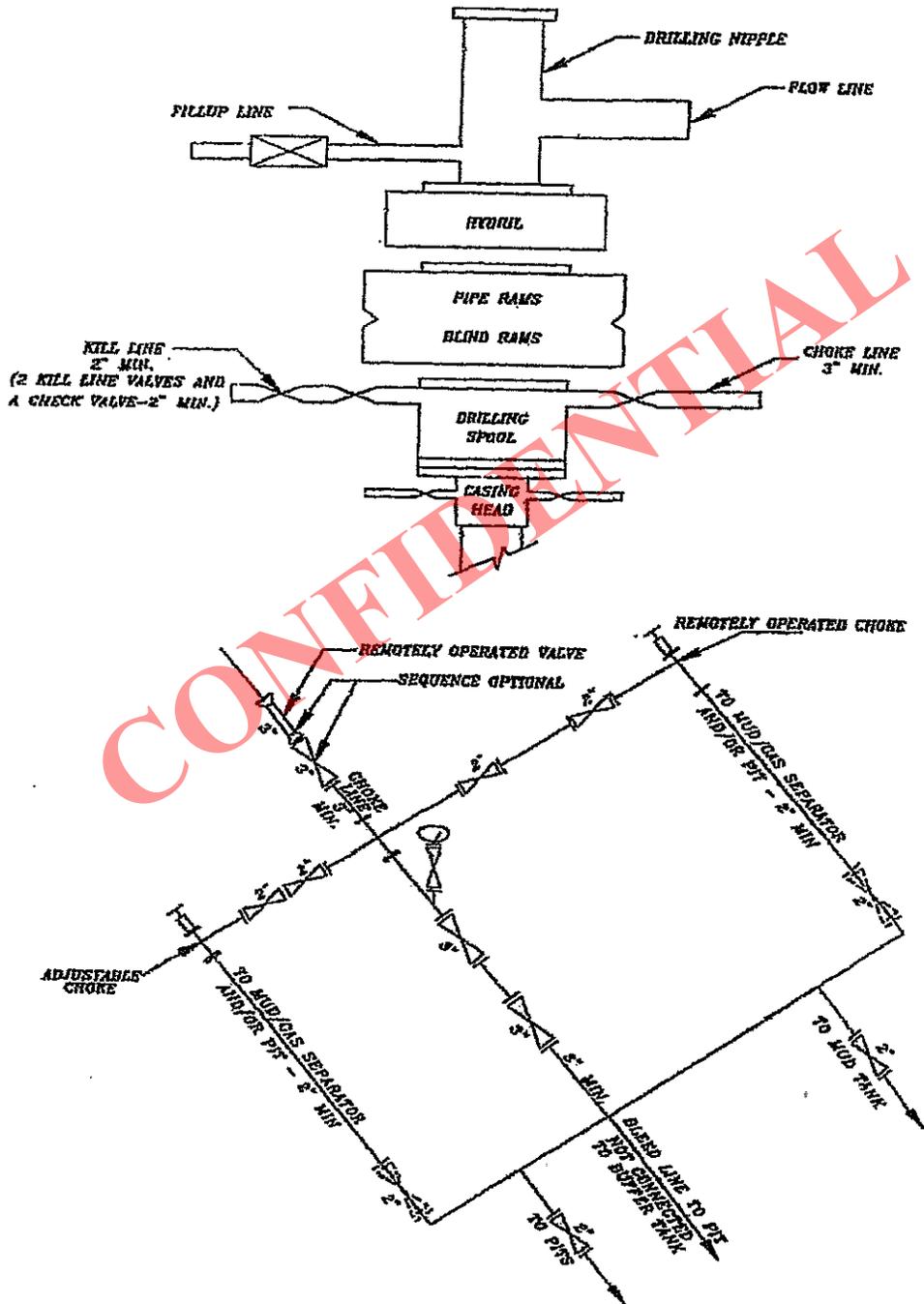


Jerry D. Allred, Professional Land Surveyor,
 Certificate 148951 (Utah)

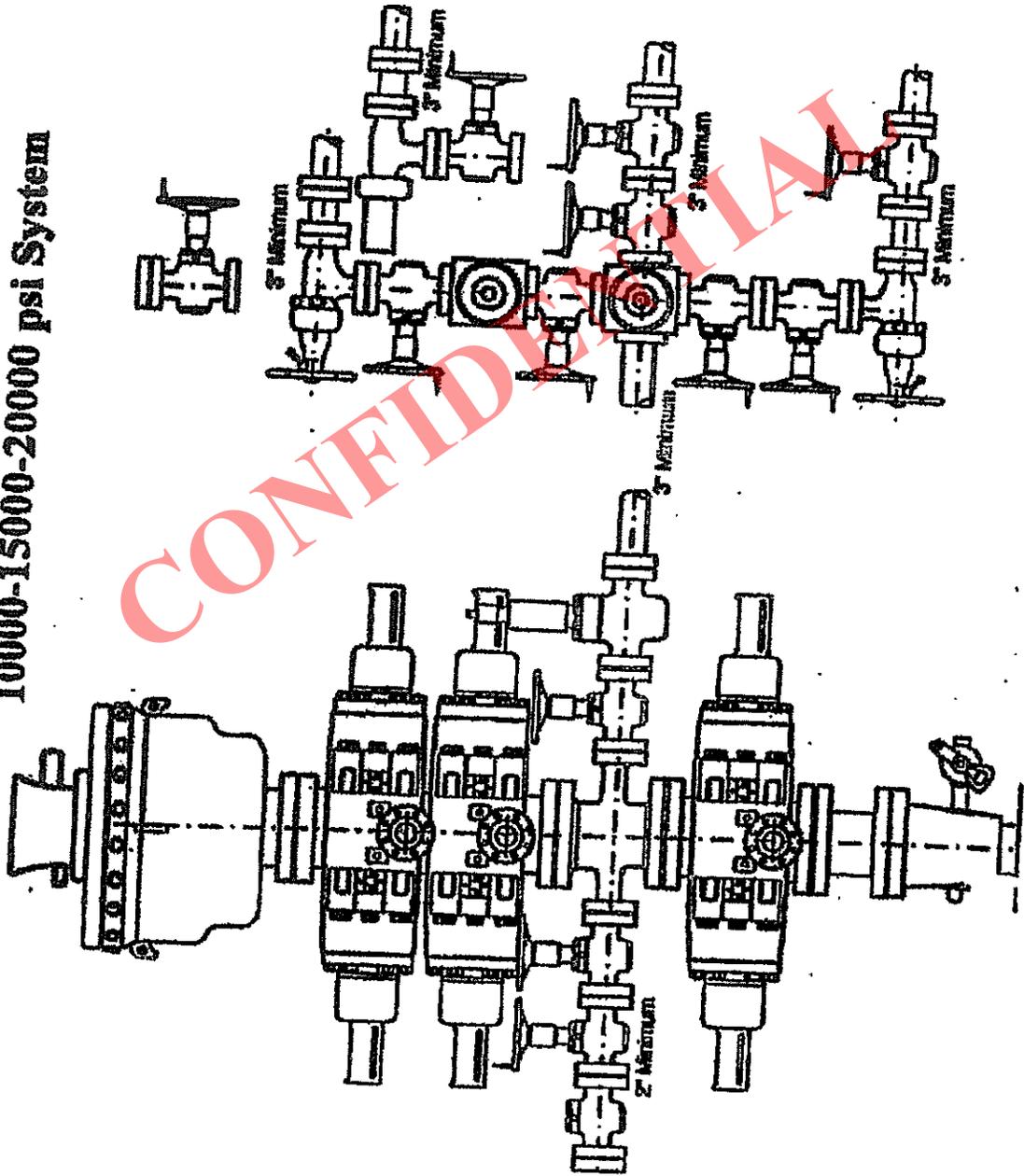
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5M BOP STACK and CHOKE MANIFOLD SYSTEM



10000-15000-20000 psi System

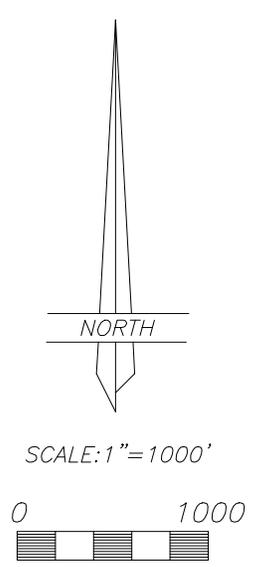
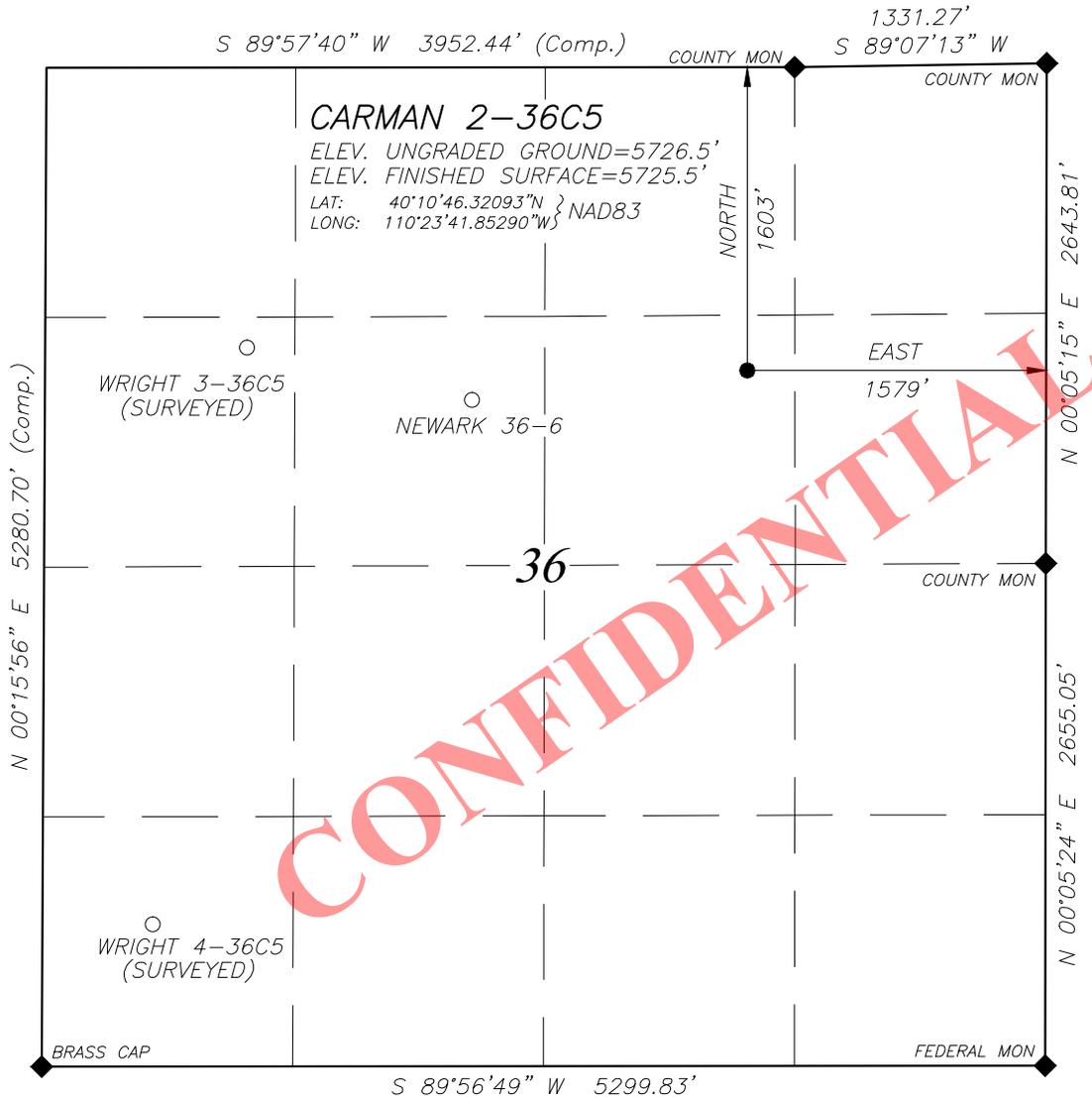


EP ENERGY E&P COMPANY, L.P.

WELL LOCATION

CARMAN 2-36C5

LOCATED IN THE SW¼ OF THE NE¼ OF SECTION 36, T3S, R5W, U.S.B.&M. DUCHESNE COUNTY, UTAH



NOTE:
 NAD27 VALUES FOR WELL POSITION:
 LAT: 40.17957590° N
 LONG: 110.39424833° W

LEGEND AND NOTES

- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY
- THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP
- THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
- THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A SECTION CORNER LOCATED AT LAT. 40°10'43.26237"N AND LONG. 110°23'52.06157"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER
- BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

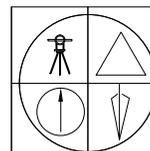
SURVEYOR'S CERTIFICATE

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



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

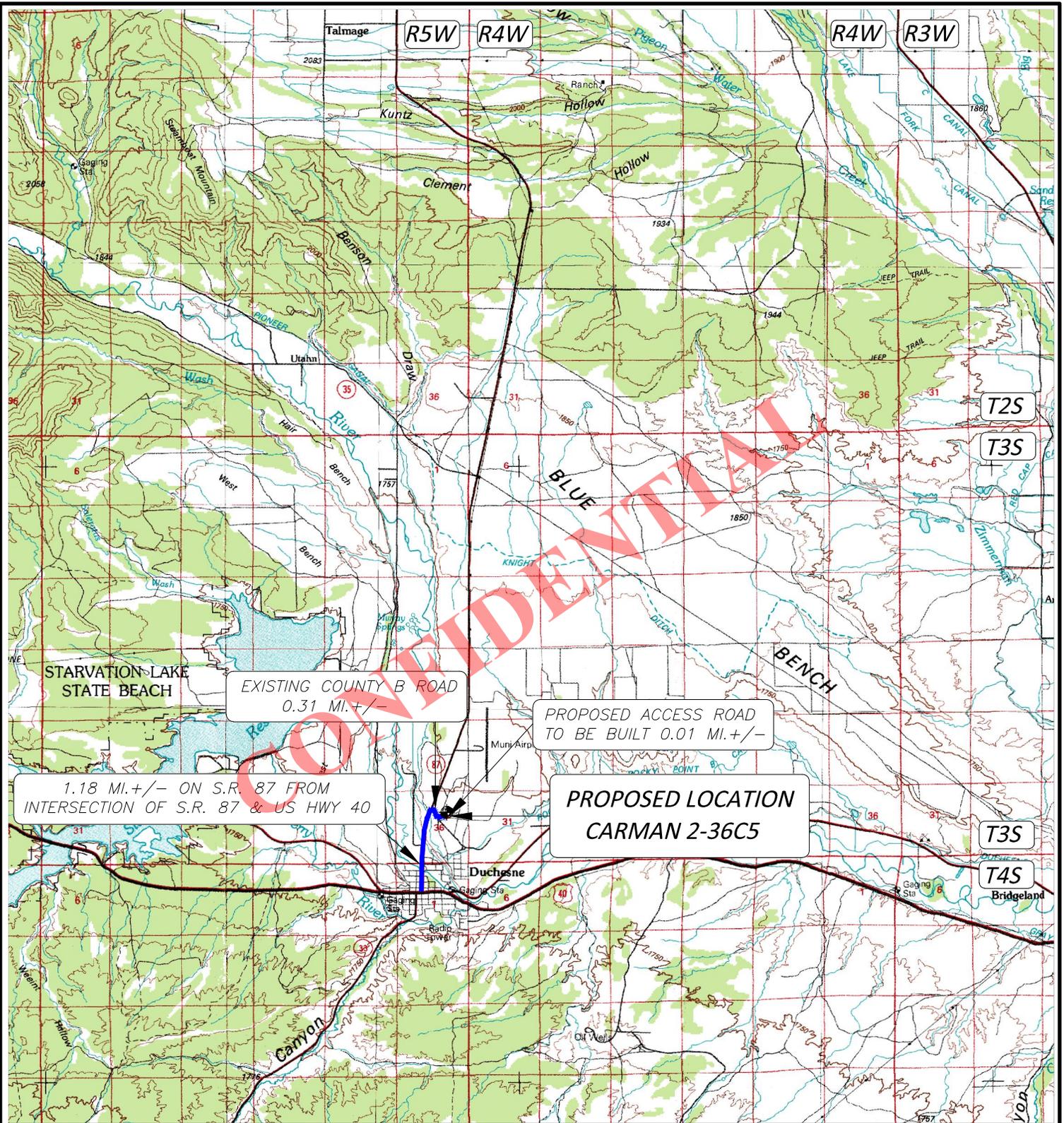
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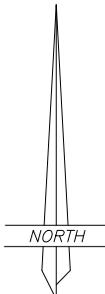
LEGEND:

● PROPOSED WELL LOCATION

01-128-502

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SURVEYING CONSULTANTS

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SECTION 36, T3S, R5W, U.S.B.&M.

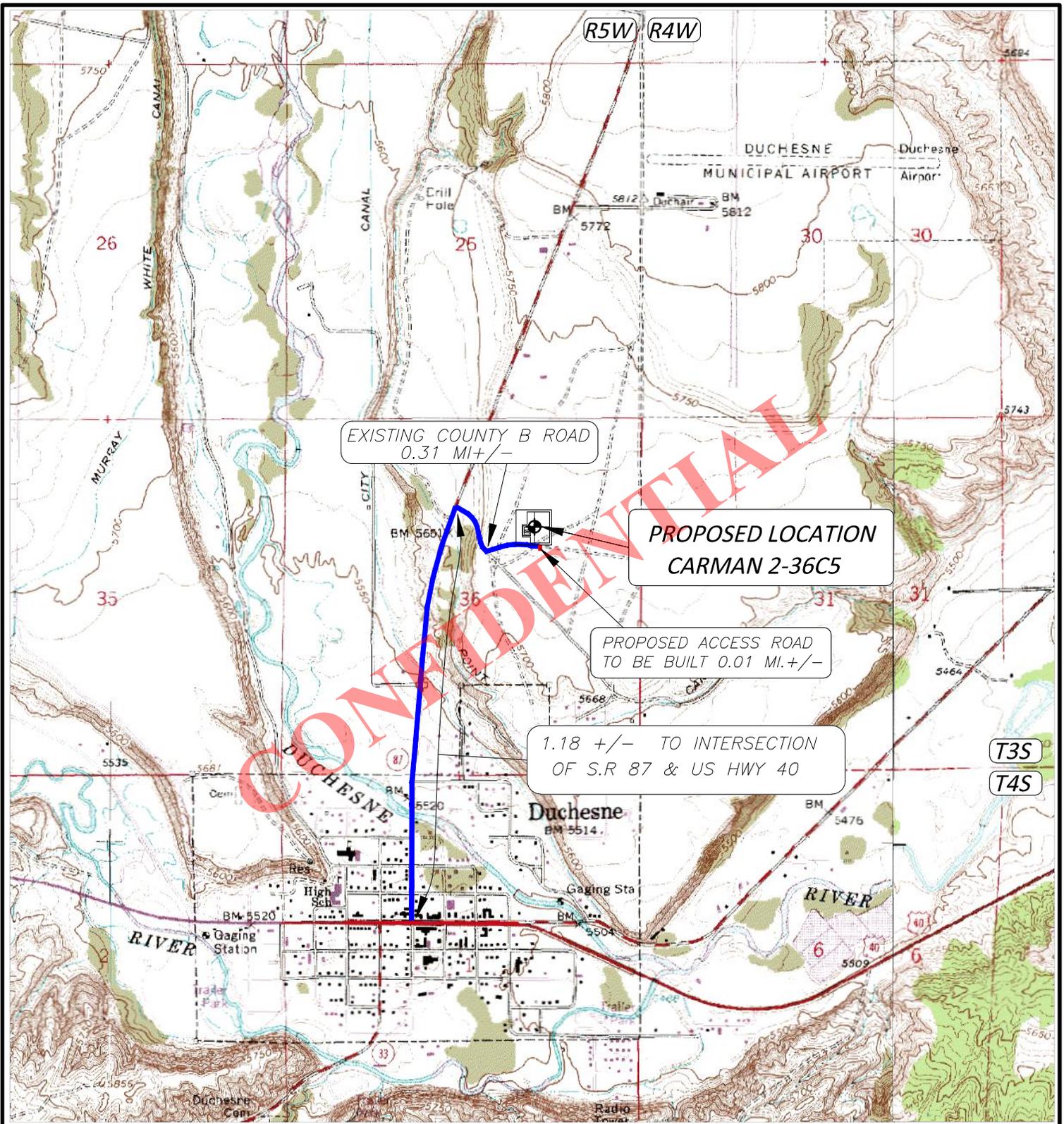
1603' FNL, 1579' FEL

TOPOGRAPHIC MAP "A"

SCALE: 1"=10,000'

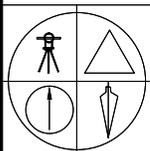
7 FEB 2014

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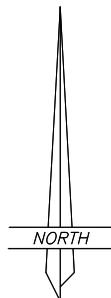
LEGEND:

-  PROPOSED WELL LOCATION
 -  PROPOSED ACCESS ROAD
 -  EXISTING GRAVEL ROAD
 -  EXISTING PAVED ROAD
- 01-128-502



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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



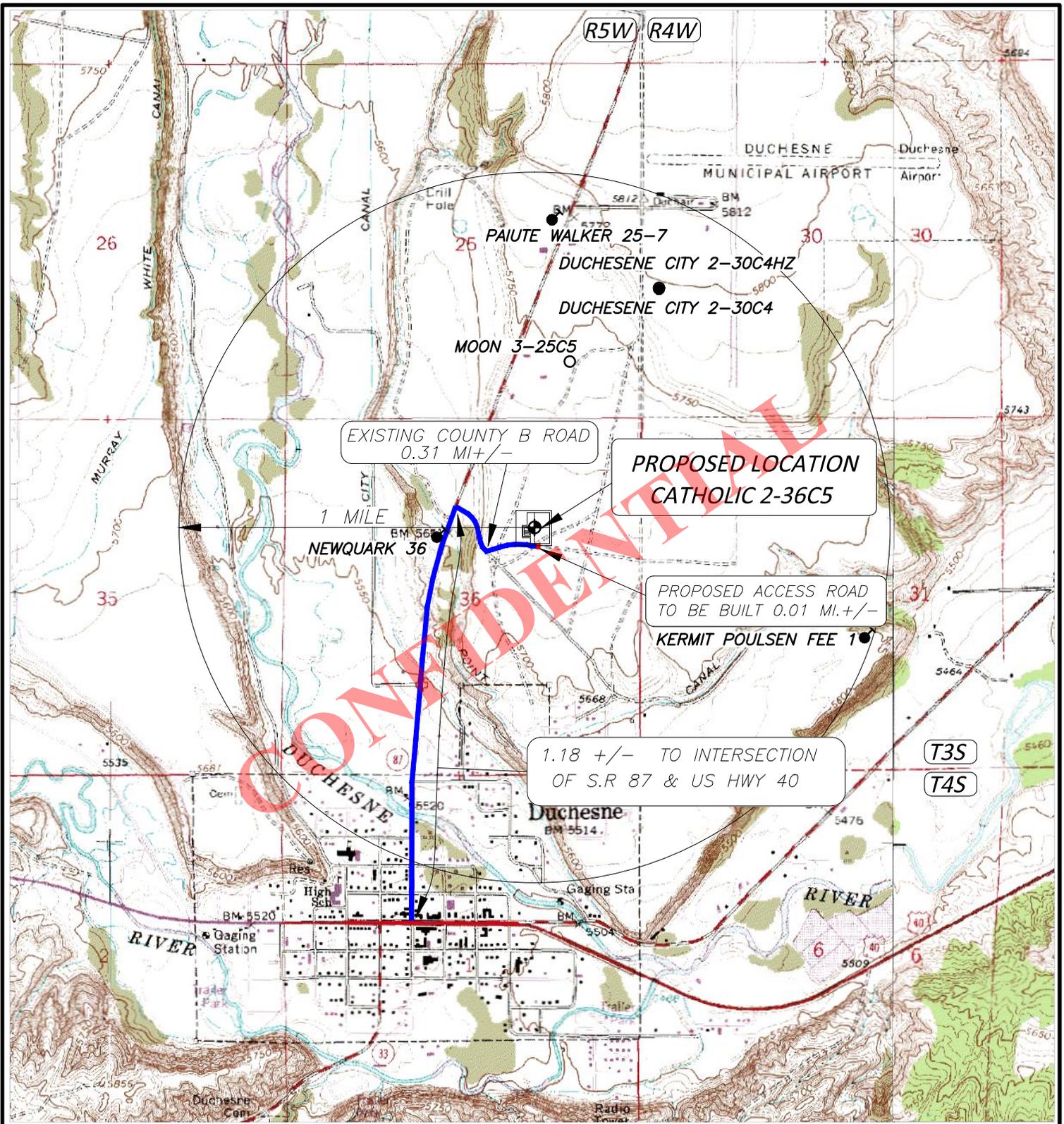
EP ENERGY E&P COMPANY, L.P.

CARMAN 2-36C5
SECTION 36, T3S, R5W, U.S.B.&M.
1603' FNL, 1579' FEL

TOPOGRAPHIC MAP "B"

SCALE; 1"=2000'
7 FEB 2014

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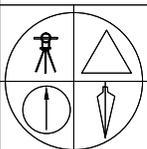
LEGEND:

 PROPOSED WELL LOCATION

2-25C6

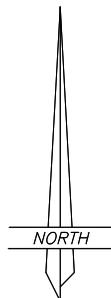
      

01-128-502



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EP ENERGY E&P COMPANY, L.P.

CARMAN 2-36C5
SECTION 36, T3S, R5W, U.S.B.&M.
1603' FNL, 1579' FEL

TOPOGRAPHIC MAP "C"

SCALE; 1"=2000'
7 FEB 2014

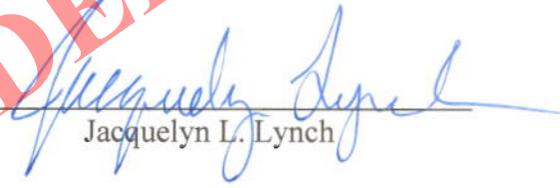
RECEIVED: August 04, 2014

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE

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

1. My name is Jacquelyn L. Lynch. I am a Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana St., Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Carman 2-36C5 well (the "Well") to be located in the SW/4NE/4 of Section 36, Township 3 South, Range 5 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Calvin E. Carman, Trustee, of the Calvin E. Carman Trust U/D/T dated June 14, 1995, whose address is 1772 W Grandview Dr., St. George, UT 84770 (the "Surface Owner"). The Surface Owner's telephone number is (435) 628-5373.
3. EP Energy and the Surface Owner have entered into a Damage Settlement and Release Agreement dated June 24, 2014, to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling of the Well.

FURTHER AFFIANT SAYETH NOT.


 Jacquelyn L. Lynch

CONFIDENTIAL

ACKNOWLEDGMENT

STATE OF TEXAS §
 §
 COUNTY OF HARRIS §

Sworn to and subscribed before me on this 24th day of July, 2014, by Jacquelyn L. Lynch, as Landman for EP Energy E&P Company, L.P., a Delaware limited partnership.


 NOTARY PUBLIC

My Commission Expires:



EP Energy E&P Company, L.P.

Related Surface Information

1. Current Surface Use:

- Livestock Grazing and Oil and Gas Production.

2. Proposed Surface Disturbance:

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately .01 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. Location Of Existing Wells:

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

4. Location And Type Of Drilling Water Supply:

- Drilling water: Duchesne City Water

5. Existing/Proposed Facilities For Productive Well:

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .01 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. Construction Materials:

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

7. Methods For Handling Waste Disposal:

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

8. Ancillary Facilities:

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

9. Surface Reclamation Plans:

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

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

10. Surface Ownership:

Calvin E. Carman, Trustee, of the Calvin E. Carman Trust U/D/T dated June 14, 1995
1772 W Grandview Dr.
St. George, Utah 84770
435-628-5373

Other Information:

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

• **Operator and Contact Persons:**

Construction and Reclamation:

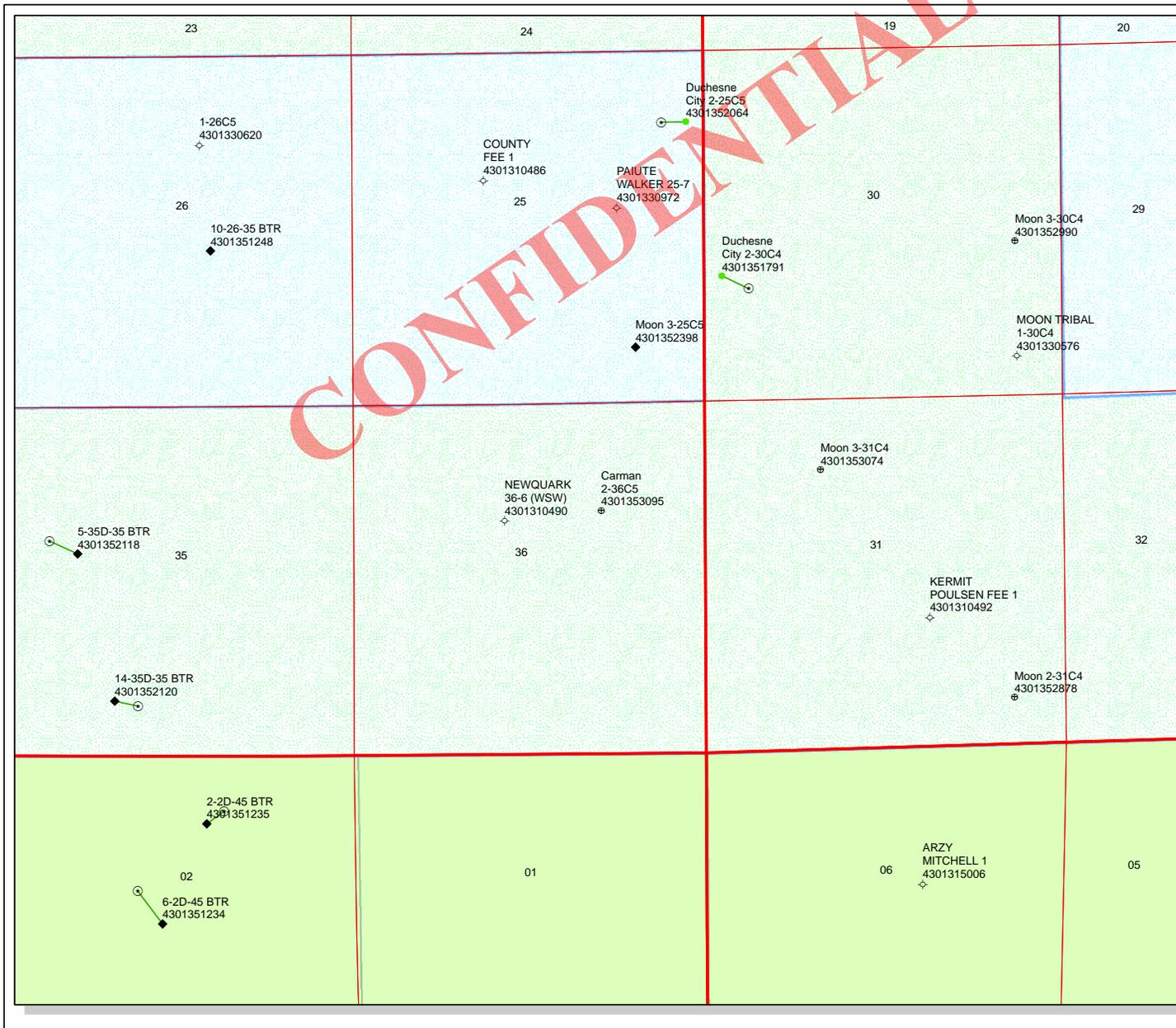
EP Energy E&P Company, L.P.
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

Regarding This APD

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

Drilling

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



API Number: 4301353095

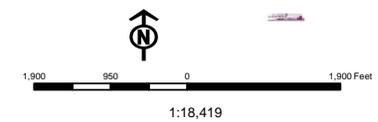
Well Name: Carman 2-36C5

Township: T03.0S Range: R05.0W Section: 36 Meridian: U

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

Map Prepared: 8/8/2014
Map Produced by Diana Mason

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



Well Name	EP ENERGY E&P COMPANY, L.P. Carman 2-36C5 43013530950000			
String	Surf	I1	L1	
Casing Size(")	9.625	7.000	5.000	
Setting Depth (TVD)	1500	7850	10800	
Previous Shoe Setting Depth (TVD)	0	1500	7850	
Max Mud Weight (ppg)	8.3	10.0	12.0	
BOPE Proposed (psi)	500	10000	10000	
Casing Internal Yield (psi)	5750	11220	13940	
Operators Max Anticipated Pressure (psi)	6739		12.0	

Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	647	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	467	YES <input type="checkbox"/> diverter system
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	317	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	317	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		1500	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

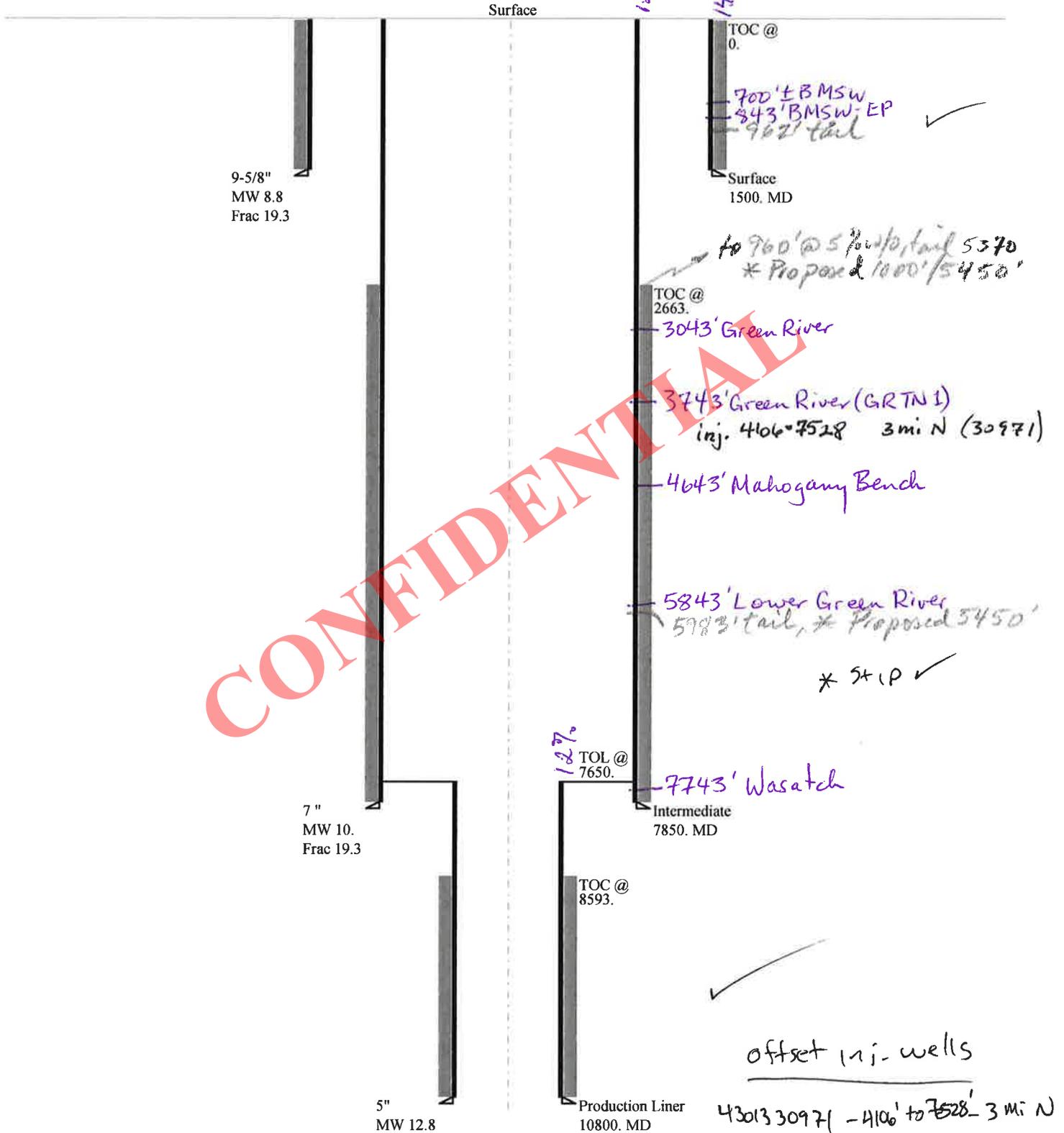
Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4082	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3140	YES <input type="checkbox"/> 10M BOPE w/rotating head, 5M annular, spacer spool,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2355	YES <input type="checkbox"/> 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)=	2685	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		7850	psi
*Max Pressure Allowed @ Previous Casing Shoe=		1500	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	5.000	"
Max BHP (psi)	.052*Setting Depth*MW=	6739	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5443	YES <input type="checkbox"/> 10M BOPE w/rotating head, 5M annular, spacer spool,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4363	YES <input type="checkbox"/> 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)=	6090	YES <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		9758	psi
*Max Pressure Allowed @ Previous Casing Shoe=		7850	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="checkbox"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43013530950000 Carman 2-36C5

Casing Schematic



Well name:	43013530950000 Carman 2-36C5		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Surface	Project ID:	43-013-53095
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 8.800 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 95 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Burst

Max anticipated surface pressure: 1,170 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 1,500 psi

No backup mud specified.

Burst:

Design factor 1.00

Cement top: Surface

Tension:

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

Tension is based on buoyed weight.
 Neutral point: 1,304 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 7,850 ft
 Next mud weight: 10.000 ppg
 Next setting BHP: 4,078 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 1,500 ft
 Injection pressure: 1,500 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	1500	9.625	40.00	N-80	LT&C	1500	1500	8.75	19087
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	686	3090	4.506	1500	5750	3.83	52.1	737	14.13 J

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

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

Date: October 2, 2014
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1500 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.

Well name:	43013530950000 Carman 2-36C5		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Intermediate	Project ID:	43-013-53095
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 10.000 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 184 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Burst:

Design factor 1.00

Cement top: 2,663 ft

Burst

Max anticipated surface pressure: 4,356 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 6,083 psi

No backup mud specified.

Tension:

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

Tension is based on buoyed weight.
 Neutral point: 6,662 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 10,800 ft
 Next mud weight: 12.000 ppg
 Next setting BHP: 6,732 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 7,850 ft
 Injection pressure: 7,850 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	7850	7	29.00	HCP-110	LT&C	7850	7850	6.059	88647

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	4078	9200	2.256	6083	11220	1.84	193.2	797	4.13 J

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

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

Date: October 2, 2014
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 7850 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013530950000 Carman 2-36C5		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Production Liner	Project ID:	43-013-53095
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 12.800 ppg
 Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 4,805 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP: 7,181 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: 10,176 ft

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 225 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Cement top: 8,593 ft

Liner top: 7,650 ft

Non-directional string.

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	3200	5	18.00	HCP-110	ST-L	10800	10800	4.151	253432

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	7181	15360	2.139	7181	13940	1.94	46.4	341	7.35 J

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

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

Date: October 2, 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 10800 ft, a mud weight of 12.8 ppg. The 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.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name Carman 2-36C5
API Number 43013530950000 **APD No** 10146 **Field/Unit** ALTAMONT
Location: 1/4,1/4 SWNE Sec 36 Tw 3.0S Rng 5.0W 1603 FNL 1579 FEL
GPS Coord (UTM) 551509 4447861 **Surface Owner** Calvin E. Carman Trust U/D/T

Participants

Jared Thacker (EP Energy Construction); Heather Ivie and Kelsey Carter (Landman/women);
Dennis Ingram (DOGM)

Regional/Local Setting & Topography

The Carman 3-36C5 well is proposed in northeast Utah, approximately 1.18 north of Duchesne from US Highway 40 along Highway 87, then east to the UDOT Road Shed and north of existing road. This well pad stakes up immediately west of the UDOT Road Shed in an open field just north of the paved road. The topography slopes gently to the south, and is an open with dense bunch grass and sagebrush. The Duchesne River is found less than a mile to the west and flows south to the town of Duchesne then turns easterly toward the town of Roosevelt. This site is on the northern edge of town and has homes to the south and county and state buildings (UDOT road shed, Duchesne County Justice Center) to the east.

Surface Use Plan

Current Surface Use

Residential

New Road Miles

0.01

Well Pad

Width 392 Length 410

Src Const Material

Onsite

Surface Formation

DUCHR

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Sagebrush, bunch grass, prickly pear cactus, rabbit brush;

Mule deer, coyote, fox, rabbit, horned toad, prairie dogs and other smaller mammals and birds native to region; potential hawk or eagle use along the adjacent river.

Soil Type and Characteristics

Reddish, fine-grained sandy loam with underlying cobbles and some clays

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N**Drainage Diversion Required?** N**Berm Required?** Y

Bermed and fenced

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

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	1320 to 5280	5
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations	> 50	> 50
Presence Nearby Utility Conduits	Unknown	10
Final Score		55

1 Sensitivity Level

Characteristics / Requirements

Proposed reserve pit off west side of location in cut, measuring 110' wide by 150' long by 12' deep, and having prevailing winds from the west.

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

Proposed well pad adjacent to UDOT road shed, maybe ten to twenty feet west of fence, operator has promised landowner they will place a chain link fence around the site because of public access, surface is void of any drainages.

Dennis Ingram
Evaluator

8/12/2014
Date / Time

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
10146	43013530950000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Calvin E. Carman Trust U/D/T	
Well Name	Carman 2-36C5		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	SWNE 36 3S 5W U 1603 FNL (UTM) 551516E 4447857N		1579 FEL	GPS Coord	

Geologic Statement of Basis

EP proposes to set 1,500 feet of surface casing which will be cemented to surface. The surface hole will be drilled with air. The estimated depth to the base of moderately saline ground water is 700 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 36. These wells probably produce water from alluvium associated with the Duchesne River and the Duchesne River Formation. Depths of the wells fall in the range of 15-400 feet. Depth is not listed for 2 wells. The wells are listed as being used for irrigation, stock watering, municipal, geothermal and domestic. The proposed drilling, casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill
APD Evaluator

8/13/2014
Date / Time

Surface Statement of Basis

The surface at this well site slopes gently to the south and on the northern edge of the town of Duchesne. There aren't any drainage issues in the proposed disturbance area. The State UDOT road shed fence is immediately east of this proposed well site. The operator shall place a chain link fence around this location as promised in the landowner agreement because of public access and safety.

A reserve pit is planned off the west side of the location in cut, and the operator shall install a 20 mil synthetic liner to contain the drilling fluids. Production tanks are planned on the east side of the location and adjacent within a hundred feet of an equipment shed belonging to UDOT.

A presite was scheduled and performed on August 12, 2014 to take input and address issues regarding the construction and drilling of the Carman 2-36C5 well. Calvin Carman was shown as the landowner of record and was therefore invited to the presite. The surface owner and operator have entered into a surface damage and landowner agreement and submitted proof of that to the Division.

Dennis Ingram
Onsite Evaluator

8/12/2014
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
----------	-----------

Pits	A synthetic liner with a minimum thickness of 20 mils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the west side of the location.
Surface	The well site shall be bermed to prevent fluids from entering or leaving the pad.
Surface	The well site shall also be fenced with chain link as promised in the landowner agreement and at the onsite because of human population.

CONFIDENTIAL

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/4/2014

API NO. ASSIGNED: 43013530950000

WELL NAME: Carman 2-36C5

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: SWNE 36 030S 050W

Permit Tech Review:

SURFACE: 1603 FNL 1579 FEL

Engineering Review:

BOTTOM: 1603 FNL 1579 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.17951

LONGITUDE: -110.39490

UTM SURF EASTINGS: 551516.00

NORTHINGS: 4447857.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

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

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingling Approved

LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 139-85
- Effective Date: 3/11/2010
- Siting: 4 WELLS PER 640 ACRES
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhll
12 - Cement Volume (3) - hmadonald
25 - Surface Casing - hmadonald



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: Carman 2-36C5
API Well Number: 43013530950000
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 139-85. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

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

General:

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

Conditions of Approval:

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

Cement 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 1000' MD and tail cement to 500' above the Lower Green River as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet

- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved By:

Approved by:

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

For John Rogers
Associate Director, Oil & Gas

**Carman 2-36C5
Sec. 36, T3S, R5W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,043' TVD
Green River (GRTN1)	3,743' TVD
Mahogany Bench	4,643' TVD
L. Green River	5,843' TVD
Wasatch	7,743' TVD
T.D. (Permit)	10,800' TVD

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	3,043' MD / TVD
	Green River (GRTN1)	3,743' MD / TVD
	Mahogany Bench	4,643' MD / TVD
Oil	L. Green River	5,843' MD / TVD
Oil	Wasatch	7,743' MD / TVD

3. Pressure Control Equipment: (Schematic Attached)

A Diverter System from 60' MD/TVD to 2,000' MD/TVD on Conductor. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 2,000' MD/TVD to 7,850' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 7,850' MD/TVD to TD (10,800' MD/TVD).

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

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly

cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with 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 2,000' - TD
- B) Mud logger with gas monitor – 2,000' to TD (10,800' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

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

Please refer to the attached Wellbore Diagram.

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

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

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

5. **Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	Air	Air
Intermediate	WBM	9.0 – 10.0
Production	WBM	10.5 – 12.0

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

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 2,000' MD/TVD – TD (10,800' MD/TVD)

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

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,800' TVD equals approximately 6,739 psi. This is calculated based on a 0.624 psi/ft gradient (12.0 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,363 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 7,850' TVD = 6,280 psi

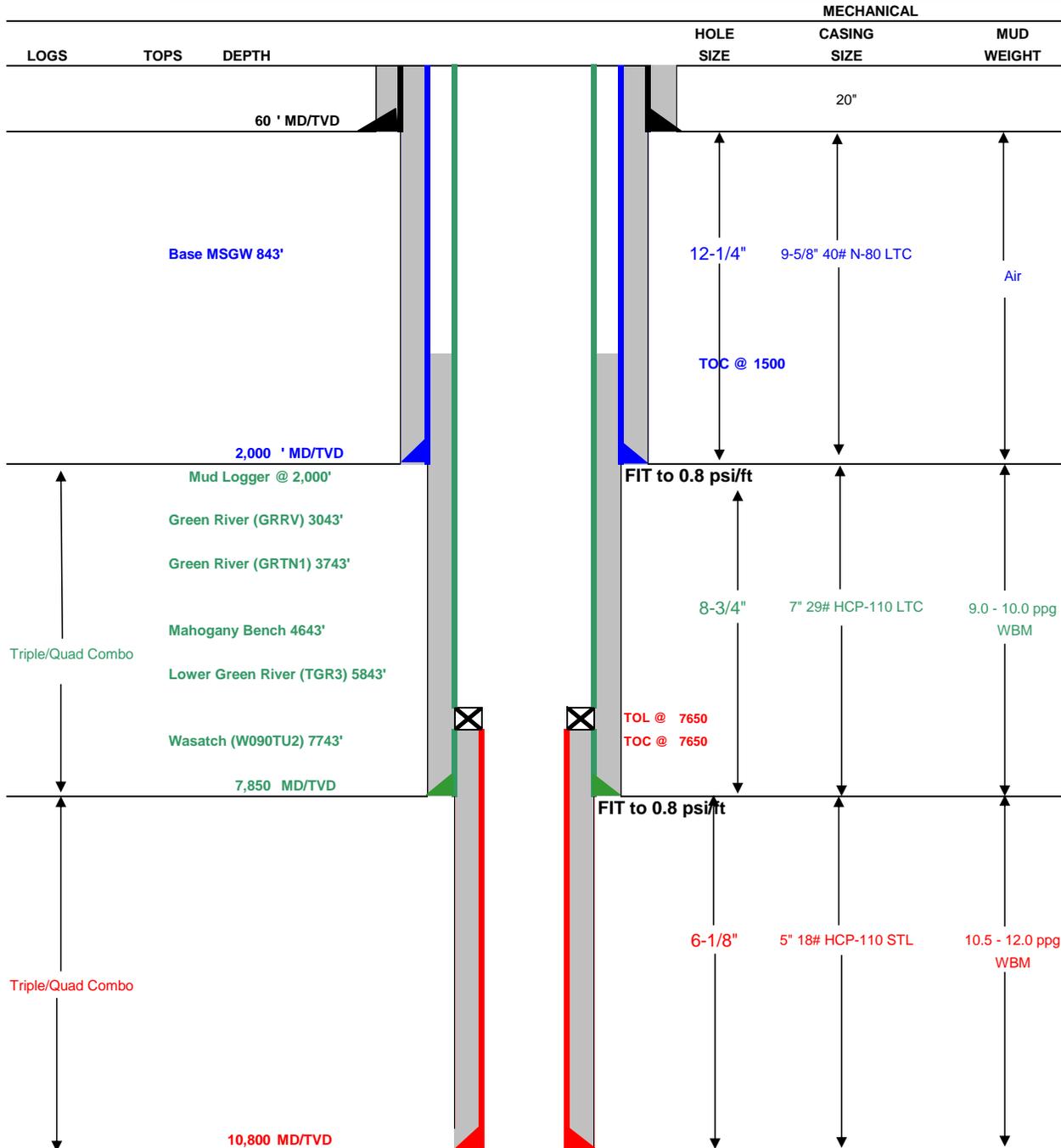
BOPE and casing design will be based on the lesser of the two MASPs which is 4,363 psi.

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



Drilling Schematic

Company Name: EP ENERGY	Date: October 28, 2014
Well Name: Carman 2-36C5	TD: 10,800
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 36 T3S R5W 1603' FNL 1579' FEL	BHL: Straight Hole
Objective Zone(s): Green River, Wasatch	Elevation: 5725.5
Rig: Precision 406	Spud (est.): TBD
BOPE Info: Diverter System from 60' to 2,000' . 11 10M BOPE w/ rotating head & 5M annular from 2,000' to 7,850' . 11 10M BOPE w/ rotating head, spacer spool, 5M annular, flex rams, blind rams, single w/ flex rams from 7,850' to TD	



DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
SURFACE	9-5/8"	0	2000	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	7850	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5"	7650	10800	18.00	HCP-110	STL	13,940	15,450	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	Lead	1,200	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	320	75%	12.0 ppg	2.23
	Tail	800	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	303	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	3,950	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	395	30%	12.5 ppg	1.91
	Tail	2,400	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	292	30%	13.0 ppg	1.64
PRODUCTION LINER		3,150	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	187	25%	14.2 ppg	1.47

FLOAT EQUIPMENT & CENTRALIZERS	
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 5,800'.
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

10/31/2014

Subject: 24 Hour Notice of Initial Spud on the following well.

Well Name: Carman 2-36C5

API Well Number: 43013530950000

Field: Altamont

County: Duchesne

Mineral Owner: Fee

1603 FNL 1579 FEL
SWNE 36 38 SW

CONFIDENTIAL

Leon Ross Drilling

Rig #35 Bucket Rig will be Spudded in on the above well for EP Energy LLC.

Best Regards

Morgan Harden
Rig Site Supervisor
EP Energy LLC
C: 435-823-1764

CONFIDENTIAL

EP Energy EPP Company, L.P.

10/31/2014

Subject: 24 Hour Notice of Initial Spud on the following well.

Well Name: Carman 2-36C5

API Well Number: 43013530950000

Field: Altamont

County: Duchesne

Mineral Owner: Fee

SWNE S-36 T03S R05W

FEE LEASE

Leon Ross Drilling

Rig #35 Bucket Rig will be Spudded in on the above well for EP Energy LLC.

Best Regards

Morgan Harden

Rig Site Supervisor

EP Energy LLC

C: 435-823-1764

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

SUNE SEC 36 T 03S R05W FEE LEASE

Carman 2-36C5 24 Hour notice spud 12-1/4", Run 9-5/8" casing and cement.

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com>

Sun, Nov 2, 2014 at 8:36 PM

To: "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>

11/02/2014

Subject: 24 Hour notice spud 12-1/4" hole, Run 9-5/8" casing and cement.

Well Name: Carman 2-36C5

API Well Number: 43013530950000

Field: Altamont

County: Duchesne

Mineral Owner: Fee

Leon Ross Drilling

Rig #26 Will Spud the 12-1/4" hole on the above well for EP Energy LLC.

Thanks,

Lloyd Rowell / Morgan Harden

EP Energy / PD 406

713-997-1220 (Rig)

435-823-1764 (Cell)

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Carman 2-36C5
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013530950000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext
9. FIELD and POOL or WILDCAT: ALTAMONT	4. LOCATION OF WELL FOOTAGES AT SURFACE: 1603 FNL 1579 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 36 Township: 03.0S Range: 05.0W Meridian: U
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/12/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Initial Completion"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 EP plans to complete into the Wasatch. Please see attached for details.

Approved by the
Utah Director
Oil, Gas and Mining
 Date: December 03, 2014
 By: Derek Duff

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 12/3/2014	

Carmen 2-36C5

Initial Completion

API # : 430135309500

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 5" casing from the 7" after the frac.
6. 2 7/8" tubing will be run to isolate the 7" casing during the flow back of the well.
7. Well pressure and annulus pressure would be monitored during this time until the well is ready for pump.

Completion Information (Wasatch Formation)

- | | |
|-----------------|--|
| Stage #1 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9950' – 10270' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3623 gals. |
| Stage #2 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9650' – 9950' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3618 gals. |
| Stage #3 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9350' – 9650' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3612 gals. |
| Stage #4 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9050' – 9350' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3607 gals. |
| Stage #5 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~8750' – 9050' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 3602 gals. |

Stage #6 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~8450' – 8750' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of White 30/50. Total clean water volume is 3596 gals.

Stage #7 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~8150' – 8450' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of White 30/50. Total clean water volume is 3591 gals.

Stage #8 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~7850' – 8150' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of White 30/50. Total clean water volume is 3586 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	9,950	10,270	320	NA	320	960	1	TLC 30/50	150,000	469	3,000	5,000	3,623	4,023
Stage #2	9,650	9,950	300	9,965	300	900	1	TLC 30/50	150,000	500	3,000	5,000	3,618	4,018
Stage #3	9,350	9,650	300	9,665	300	900	1	TLC 30/50	150,000	500	3,000	5,000	3,612	4,013
Stage #4	9,050	9,350	300	9,365	300	900	1	TLC 30/50	150,000	500	3,000	5,000	3,607	4,008
Stage #5	8,750	9,050	300	9,065	300	900	1	TLC 30/50	150,000	500	3,000	5,000	3,602	4,002
Stage #6	8,450	8,750	300	8,765	300	900	1	White 30/50	150,000	500	3,000	5,000	3,596	3,999
Stage #7	8,150	8,450	300	8,465	300	900	1	White 30/50	150,000	500	3,000	5,000	3,591	3,993
Stage #8	7,850	8,150	300	8,165	300	900	1	White 30/50	150,000	500	3,000	5,000	3,586	3,988
Average per Stage			303		303	908	1		150,000	496	3,000	5,000	3,604	4,006
Totals per Well			2,420		2,420	7,260	8		1,200,000		24,000	40,000	28,835	32,045

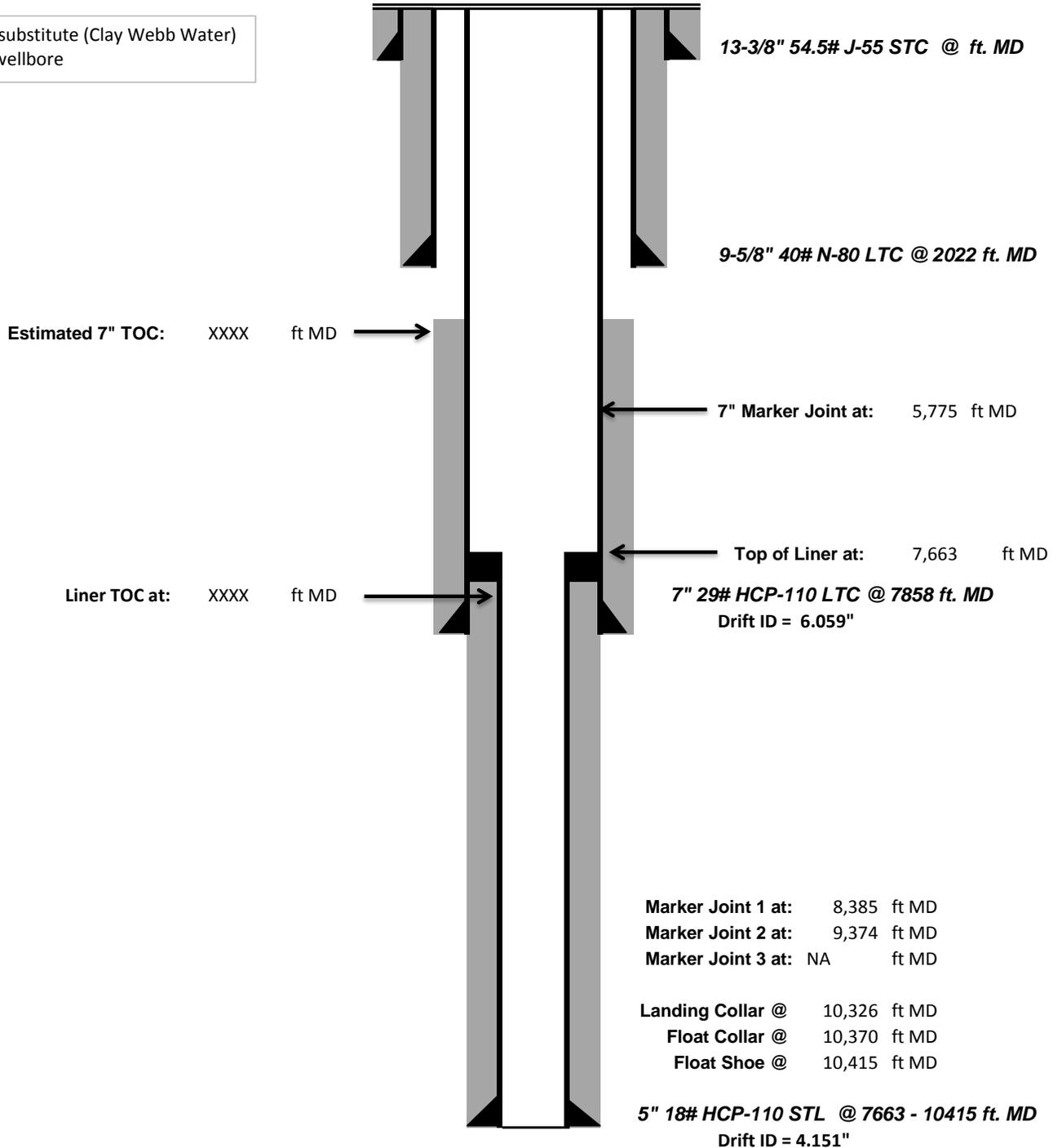


Pre-Completion Wellbore Schematic

Well Name: **Carmen 2-36C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 10' 46.320" N Long: 110 23' 41.852" W**
 Producing Zone(s): **Upper Wastach**

Last Updated: **12/2/2014**
 By: **Peter Schmeltz**
 TD: **10,415**
 API: **430135309500**
 AFE: **161994**

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



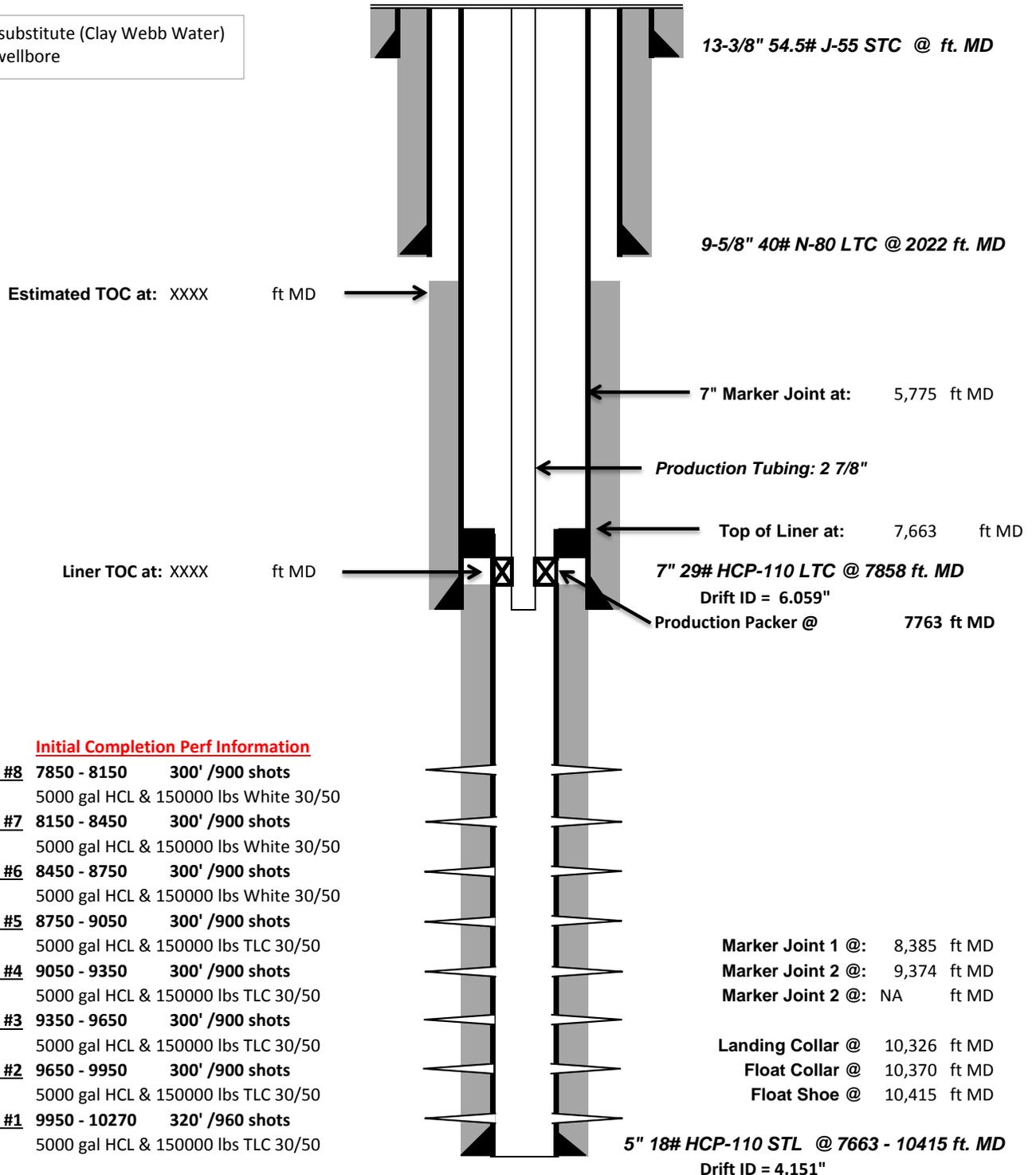


Post-Completion Wellbore Schematic

Well Name: **Carmen 2-36C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 10' 46.320" N Long: 110 23' 41.852" W**
 Producing Zone(s): **Upper Wastach**

Last Updated: **12/1/2014**
 By: **Peter Schmeltz**
 TD: **10,415**
 API: **430135309500**
 AFE: **161994**

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



Initial Completion Perf Information

Stage #	Depth Range (ft)	Shots	Fluid
Stage #8	7850 - 8150	300' /900 shots	5000 gal HCL & 150000 lbs White 30/50
Stage #7	8150 - 8450	300' /900 shots	5000 gal HCL & 150000 lbs White 30/50
Stage #6	8450 - 8750	300' /900 shots	5000 gal HCL & 150000 lbs White 30/50
Stage #5	8750 - 9050	300' /900 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #4	9050 - 9350	300' /900 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #3	9350 - 9650	300' /900 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #2	9650 - 9950	300' /900 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #1	9950 - 10270	320' /960 shots	5000 gal HCL & 150000 lbs TLC 30/50

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

SWNE SEC 36 T03S R05W LEASE-FEE

24hr Notice Test BOPE & Casing

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com>

Sun, Nov 16, 2014 at 5:48 PM

To: "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

CARMAN 2-36C5

API # 43013530950000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on testing the 11" 10M BOPE & 9-5/8" Surface Casing 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.

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

SWNE 5-36 TOSS ROWW LEASE FEE

RUNNING & CEMENTING 5" 18# P-110HC STL Production Liner

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com>

Thu, Nov 27, 2014 at 3:44 AM

To: "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>, "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

CARMAN 2-36 C5

API # 43013530950000

ALTAMONT FIELD

DUCHESNE COUNTY

We plan on running and cementing 5" 18# P-110HC STL Production Liner to +/- 10,416' within 24hrs

Thanks,

Lloyd Rowell / Morgan Harden

EP Energy / PD 406

713-997-1220 (Rig)

435-823-1764 (Cell)

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

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

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

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

12. COUNTY

13. STATE

UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

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

2. NAME OF OPERATOR:

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

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

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

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

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

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

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

25. TUBING RECORD

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

26. PRODUCING INTERVALS

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

27. PERFORATION RECORD

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

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

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

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

30. WELL STATUS:

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

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

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

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

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) _____ TITLE _____

SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

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

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

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

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

Phone: 801-538-5340

Fax: 801-359-3940

Attachment to Well Completion Report**Form 8 Dated January 15, 2015****Well Name: Carman 2-36C5****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
8470'-8714'	.43	66	Open
8184'-8441'	.43	69	Open
7881'-8142'	.43	69	

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

Depth Interval	Amount and Type of Material
8743'-9012'	5000 gal 15% HCL acid, 3100# 100 mesh, 149600# 30/50 TLC
8470'-8714'	5000 gal 15% HCL acid, 3240# 100 mesh, 150320# 30/50 Premium
8184'-8441'	5000 gal 15% HCL acid, 3100# 100 mesh, 149640# 30/50 Premium
7881'-8142'	5000 gal 15% HCL acid, 3000# 100 mesh, 150020# 30/50 Premium



February 13, 2015

Mr. Brad Hill
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84116-5801

RE: Directional Well
Carman 2-36C5
Surface Hole Location: 1603' FNL, 1579' FEL (SWNE) Section 36-3S-5W
Bottom Hole Location 1978' FNL, 1667' FEL (SWNE) Section 36-3S-5W, U.S.B.&M.
Duchesne County, Utah

Dear Mr. Hill,

As a supplement to EP Energy E&P Company, L.P.'s ("EPE") Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rule R649-3-11, which pertains to the Location and Siting of Directional Wells.

Per our standard operating procedure we drilled out the production hole without a motor, but during this process, this well built more angle than usual and due to the higher angle, it built faster South, which took us outside the 200' tolerance. The deviation occurred after we took a wireline survey. We were within the 200' tolerance when we TD'd intermediate casing.

EPE hereby certifies that EPE owns rights to existing oil and gas leases under all tracts that are on or within 460' of the proposed wellbore path to drill and produce. All such tracts are entirely within the 640 acre drilling unit for the well.

Best regards,

A handwritten signature in blue ink that reads "Jacquelyn L. Lynch". The signature is fluid and cursive, written over the typed name.

Jacquelyn L. Lynch
Sr. Landman
713-997-5747
Jacquelyn.Lynch@EpEnergy.com



Company: EP Energy **Job Number:** _____
Well: Carman 2-36C5 **Mag Decl.:** _____
Location: Duchesne, UT **Dir Driller:** _____
Rig: Precision 406 **MWD Eng:** _____

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
Tie In	0.00	0.00	0.00												
1	100.00	0.32	133.39	100.00	100.00	-0.19	0.19	S	0.20	E	0.28	133.39	0.32	0.32	133.39
2	200.00	0.18	55.64	100.00	200.00	-0.30	0.30	S	0.53	E	0.61	119.26	0.33	-0.15	-77.75
3	300.00	0.30	112.58	100.00	300.00	-0.31	0.31	S	0.90	E	0.96	109.17	0.25	0.13	56.94
4	400.00	0.28	108.91	100.00	400.00	-0.50	0.50	S	1.38	E	1.47	109.74	0.03	-0.02	-3.68
5	500.00	0.21	113.94	100.00	500.00	-0.65	0.65	S	1.78	E	1.90	110.04	0.07	-0.07	5.03
6	600.00	0.35	179.71	100.00	599.99	-1.02	1.02	S	1.95	E	2.20	117.73	0.32	0.14	65.78
7	700.00	0.51	203.41	100.00	699.99	-1.73	1.73	S	1.77	E	2.48	134.35	0.24	0.17	23.69
8	800.00	0.80	190.48	100.00	799.99	-2.83	2.83	S	1.47	E	3.19	152.55	0.32	0.29	-12.93
9	900.00	1.00	202.25	100.00	899.97	-4.32	4.32	S	1.01	E	4.44	166.81	0.27	0.20	11.77
10	1000.00	0.99	204.17	100.00	999.96	-5.92	5.92	S	0.33	E	5.93	176.82	0.03	-0.01	1.92
11	1100.00	1.17	234.11	100.00	1099.94	-7.31	7.31	S	0.85	W	7.36	186.65	0.58	0.18	29.94
12	1200.00	1.13	225.06	100.00	1199.92	-8.60	8.60	S	2.38	W	8.92	195.44	0.19	-0.04	-9.05
13	1300.00	1.09	220.62	100.00	1299.90	-10.02	10.02	S	3.69	W	10.67	200.22	0.09	-0.04	-4.44
14	1400.00	1.10	224.13	100.00	1399.88	-11.42	11.42	S	4.97	W	12.46	203.53	0.07	0.01	3.52
15	1500.00	1.25	231.57	100.00	1499.86	-12.79	12.79	S	6.50	W	14.35	206.93	0.22	0.16	7.44
16	1600.00	1.58	230.34	100.00	1599.83	-14.35	14.35	S	8.42	W	16.64	210.39	0.33	0.33	-1.24
17	1700.00	1.56	229.88	100.00	1699.79	-16.11	16.11	S	10.52	W	19.24	213.15	0.02	-0.02	-0.46
18	1800.00	1.95	228.05	100.00	1799.75	-18.13	18.13	S	12.83	W	22.21	215.29	0.39	0.38	-1.82
19	1909.00	1.97	217.61	109.00	1908.68	-20.85	20.85	S	15.35	W	25.89	216.36	0.33	0.02	-9.58
20	2121.00	2.77	210.39	212.00	2120.50	-28.15	28.15	S	20.16	W	34.63	215.61	0.40	0.38	-3.40
21	2217.00	2.08	194.22	96.00	2216.42	-31.84	31.84	S	21.77	W	38.57	214.35	1.01	-0.72	-16.84
22	2313.00	1.39	228.28	96.00	2312.37	-34.31	34.31	S	23.06	W	41.34	213.91	1.26	-0.72	35.48
23	2410.00	0.80	221.19	97.00	2409.36	-35.60	35.60	S	24.39	W	43.15	214.41	0.62	-0.61	-7.31

24	2506.00	0.82	252.86	96.00	2505.35	-36.31	36.31	S	25.48	W	44.36	215.07	0.46	0.02	32.99
25	2602.00	0.23	352.40	96.00	2601.34	-36.32	36.32	S	26.17	W	44.76	215.77	0.92	-0.61	103.69
26	2698.00	0.78	355.65	96.00	2697.34	-35.48	35.48	S	26.24	W	44.13	216.49	0.57	0.57	3.39
27	2794.00	0.21	69.34	96.00	2793.34	-34.76	34.76	S	26.13	W	43.48	216.93	0.78	-0.59	298.24
28	2890.00	0.63	318.52	96.00	2889.33	-34.30	34.30	S	26.31	W	43.23	217.49	0.76	0.44	259.56
29	2986.00	2.24	332.16	96.00	2985.30	-32.25	32.25	S	27.54	W	42.41	220.49	1.70	1.68	14.21
30	3083.00	2.27	4.72	97.00	3082.23	-28.66	28.66	S	28.26	W	40.25	224.60	1.30	0.03	337.57
31	3179.00	2.19	47.43	96.00	3178.16	-25.52	25.52	S	26.76	W	36.98	226.35	1.69	-0.08	44.49
32	3275.00	1.82	36.50	96.00	3274.10	-23.06	23.06	S	24.50	W	33.64	226.74	0.55	-0.39	-11.39
33	3371.00	1.54	32.40	96.00	3370.06	-20.74	20.74	S	22.90	W	30.90	227.83	0.32	-0.29	-4.27
34	3467.00	1.67	40.24	96.00	3466.03	-18.58	18.58	S	21.31	W	28.27	228.90	0.27	0.14	8.17
35	3564.00	2.20	67.22	97.00	3562.97	-16.78	16.78	S	18.68	W	25.11	228.05	1.07	0.55	27.81
36	3660.00	1.58	35.42	96.00	3658.92	-14.99	14.99	S	16.21	W	22.08	227.23	1.24	-0.65	-33.13
37	3756.00	1.38	47.48	96.00	3754.89	-13.13	13.13	S	14.59	W	19.63	228.01	0.38	-0.21	12.56
38	3852.00	2.27	33.66	96.00	3850.84	-10.77	10.77	S	12.69	W	16.64	229.67	1.03	0.93	-14.40
39	3949.00	2.02	33.56	97.00	3947.77	-7.75	7.75	S	10.68	W	13.19	234.04	0.26	-0.26	-0.10
40	4044.00	0.28	0.95	95.00	4042.75	-6.12	6.12	S	9.75	W	11.51	237.88	1.88	-1.83	-34.33
41	4140.00	1.25	213.44	96.00	4138.74	-6.76	6.76	S	10.32	W	12.34	236.78	1.56	1.01	221.34
42	4236.00	2.46	206.49	96.00	4234.69	-9.48	9.48	S	11.82	W	15.15	231.27	1.28	1.26	-7.24
43	4333.00	2.91	208.09	97.00	4331.59	-13.51	13.51	S	13.90	W	19.39	225.82	0.47	0.46	1.65
44	4429.00	0.98	208.53	96.00	4427.53	-16.38	16.38	S	15.44	W	22.51	223.31	2.01	-2.01	0.46
45	4525.00	1.51	188.00	96.00	4523.50	-18.36	18.36	S	16.01	W	24.36	221.10	0.71	0.55	-21.39
46	4622.00	1.88	188.07	97.00	4620.46	-21.20	21.20	S	16.41	W	26.81	217.75	0.38	0.38	0.07
47	4718.00	2.85	185.06	96.00	4716.38	-25.13	25.13	S	16.84	W	30.26	213.83	1.02	1.01	-3.14
48	4814.00	1.89	219.10	96.00	4812.30	-28.74	28.74	S	18.05	W	33.94	212.14	1.73	-1.00	35.46
49	4910.00	2.73	218.14	96.00	4908.22	-31.77	31.77	S	20.46	W	37.79	212.79	0.88	0.88	-1.00
50	5006.00	2.36	230.93	96.00	5004.13	-34.81	34.81	S	23.41	W	41.95	213.92	0.70	-0.39	13.32
51	5102.00	1.17	287.00	96.00	5100.08	-35.77	35.77	S	25.88	W	44.15	215.89	2.05	-1.24	58.41
52	5198.00	1.14	266.88	96.00	5196.07	-35.53	35.53	S	27.77	W	45.10	218.01	0.42	-0.03	-20.96
53	5293.00	1.24	241.19	95.00	5291.05	-36.08	36.08	S	29.62	W	46.68	219.38	0.57	0.11	-27.04
54	5390.00	1.91	226.28	97.00	5388.01	-37.70	37.70	S	31.71	W	49.26	220.06	0.80	0.69	-15.37
55	5486.00	2.35	213.40	96.00	5483.94	-40.45	40.45	S	33.94	W	52.81	220.00	0.67	0.46	-13.42
56	5582.00	3.14	209.44	96.00	5579.83	-44.39	44.39	S	36.32	W	57.35	219.29	0.85	0.82	-4.13
57	5679.00	2.48	225.53	97.00	5676.72	-48.17	48.17	S	39.12	W	62.06	219.08	1.05	-0.68	16.59
58	5775.00	2.04	241.29	96.00	5772.64	-50.45	50.45	S	42.10	W	65.71	219.85	0.79	-0.46	16.42
59	5871.00	2.01	228.83	96.00	5868.58	-52.38	52.38	S	44.87	W	68.97	220.59	0.46	-0.03	-12.98
60	5967.00	2.55	210.52	96.00	5964.51	-55.32	55.32	S	47.22	W	72.74	220.48	0.94	0.56	-19.07

61	6063.00	3.03	208.00	96.00	6060.39	-59.40	59.40	S	49.50	W	77.32	219.80	0.52	0.50	-2.63
62	6159.00	2.35	224.99	96.00	6156.29	-63.04	63.04	S	52.08	W	81.77	219.56	1.08	-0.71	17.70
63	6255.00	2.25	232.26	96.00	6252.21	-65.58	65.58	S	54.96	W	85.57	219.97	0.32	-0.10	7.57
64	6351.00	2.44	225.12	96.00	6348.13	-68.18	68.18	S	57.90	W	89.45	220.34	0.36	0.20	-7.44
65	6446.00	3.05	209.44	95.00	6443.02	-71.80	71.80	S	60.58	W	93.94	220.15	1.01	0.64	-16.51
66	6542.00	2.43	210.38	96.00	6538.91	-75.78	75.78	S	62.86	W	98.46	219.67	0.65	-0.65	0.98
67	6638.00	2.83	196.41	96.00	6634.81	-79.81	79.81	S	64.56	W	102.66	218.97	0.78	0.42	-14.55
68	6734.00	3.18	192.44	96.00	6730.68	-84.69	84.69	S	65.80	W	107.25	217.85	0.42	0.36	-4.14
69	6830.00	3.75	190.98	96.00	6826.50	-90.37	90.37	S	66.97	W	112.48	216.54	0.60	0.59	-1.52
70	6926.00	4.06	191.33	96.00	6922.28	-96.78	96.78	S	68.24	W	118.42	215.19	0.32	0.32	0.36
71	7022.00	4.41	191.81	96.00	7018.02	-103.73	103.73	S	69.66	W	124.95	213.88	0.37	0.36	0.50
72	7118.00	4.19	192.67	96.00	7113.75	-110.76	110.76	S	71.19	W	131.67	212.73	0.24	-0.23	0.90
73	7214.00	4.41	192.58	96.00	7209.48	-117.79	117.79	S	72.76	W	138.45	211.70	0.23	0.23	-0.09
74	7310.00	4.78	191.36	96.00	7305.17	-125.31	125.31	S	74.35	W	145.71	210.68	0.40	0.39	-1.27
75	7406.00	4.17	179.92	96.00	7400.88	-132.72	132.72	S	75.14	W	152.51	209.51	1.12	-0.64	-11.92
76	7501.00	4.18	174.94	95.00	7495.63	-139.63	139.63	S	74.83	W	158.41	208.19	0.38	0.01	-5.24
77	7598.00	3.33	162.19	97.00	7592.42	-145.83	145.83	S	73.65	W	163.37	206.80	1.22	-0.88	-13.14
78	7694.00	3.27	163.92	96.00	7688.26	-151.11	151.11	S	72.04	W	167.41	205.49	0.12	-0.06	1.80
79	7790.00	3.77	174.27	96.00	7784.08	-156.89	156.89	S	70.97	W	172.19	204.34	0.84	0.52	10.78
80	7900.00	4.09	182.48	110.00	7893.82	-164.41	164.41	S	70.78	W	178.99	203.29	0.59	0.29	7.46
81	8000.00	4.71	184.23	100.00	7993.53	-172.07	172.07	S	71.23	W	186.23	202.49	0.63	0.62	1.75
82	8100.00	4.71	186.91	100.00	8093.19	-180.24	180.24	S	72.03	W	194.10	201.78	0.22	-0.01	2.68
83	8200.00	4.68	185.22	100.00	8192.85	-188.38	188.38	S	72.90	W	201.99	201.15	0.14	-0.02	-1.69
84	8300.00	4.82	188.96	100.00	8292.51	-196.59	196.59	S	73.92	W	210.03	200.61	0.34	0.14	3.74
85	8400.00	4.59	186.71	100.00	8392.17	-204.71	204.71	S	75.04	W	218.03	200.13	0.29	-0.23	-2.25
86	8500.00	4.52	183.13	100.00	8491.86	-212.62	212.62	S	75.72	W	225.70	199.60	0.29	-0.07	-3.58
87	8600.00	4.67	183.86	100.00	8591.54	-220.61	220.61	S	76.21	W	233.41	199.06	0.16	0.15	0.73
88	8700.00	4.39	183.62	100.00	8691.22	-228.50	228.50	S	76.73	W	241.03	198.56	0.27	-0.27	-0.23
89	8800.00	4.92	185.48	100.00	8790.89	-236.58	236.58	S	77.38	W	248.92	198.11	0.54	0.52	1.86
90	8900.00	5.32	184.17	100.00	8890.49	-245.47	245.47	S	78.13	W	257.60	197.65	0.41	0.40	-1.32
91	9000.00	4.95	182.83	100.00	8990.09	-254.40	254.40	S	78.68	W	266.29	197.18	0.38	-0.37	-1.33
92	9100.00	5.04	185.19	100.00	9089.71	-263.08	263.08	S	79.29	W	274.77	196.77	0.22	0.09	2.36
93	9200.00	4.71	184.12	100.00	9189.35	-271.55	271.55	S	79.98	W	283.08	196.41	0.34	-0.32	-1.07
94	9300.00	4.87	183.13	100.00	9289.00	-279.88	279.88	S	80.51	W	291.23	196.05	0.18	0.16	-0.99
95	9400.00	4.95	186.60	100.00	9388.64	-288.41	288.41	S	81.23	W	299.63	195.73	0.31	0.08	3.47
96	9500.00	4.68	185.49	100.00	9488.28	-296.76	296.76	S	82.12	W	307.91	195.47	0.28	-0.27	-1.11
97	9600.00	4.89	184.84	100.00	9587.93	-305.07	305.07	S	82.87	W	316.13	195.20	0.21	0.21	-0.65
98	9700.00	4.67	185.85	100.00	9687.59	-313.36	313.36	S	83.65	W	324.34	194.95	0.24	-0.23	1.01
99	9800.00	4.79	187.46	100.00	9787.25	-321.55	321.55	S	84.60	W	332.49	194.74	0.18	0.12	1.62

Sundry Number: 59931 API Well Number: 43013530950000

100	9900.00	4.87	182.59	100.00	9886.89	-329.93	329.93	S	85.34	W	340.79	194.50	0.42	0.08	-4.87
101	10000.00	5.08	183.06	100.00	9986.51	-338.59	338.59	S	85.76	W	349.28	194.21	0.21	0.21	0.47
102	10100.00	5.02	184.32	100.00	10086.1 3	-347.37	347.37	S	86.33	W	357.94	193.96	0.13	-0.06	1.27
103	10215.00	5.19	183.47	115.00	10200.6 7	-357.57	357.57	S	87.02	W	368.01	193.68	0.16	0.15	-0.74
104	10416.00	5.19	183.47	201.00	10400.8 5	-375.71	375.71	S	88.12	W	385.90	193.20	0.00	0.00	0.00

RECEIVED: Feb. 25, 2015

CENTRAL DIVISION

ALTAMONT FIELD
CARMAN 2-36C5
CARMAN 2-36C5
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	CARMAN 2-36C5		
Project	ALTAMONT FIELD	Site	CARMAN 2-36C5
Rig Name/No.		Event	COMPLETION LAND
Start date	12/3/2014	End date	
Spud Date/Time	11/18/2014	UWI	CARMAN 2-36C5
Active datum	KB @5,742.5ft (above Mean Sea Level)		
Afe No./Description	161994/52743 / CARMAN 2-36C5		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
12/3/2014	10:00 10:30	0.50	WOR	28		P		TGSM & JSA (PREP LOCATION FOR RIG)
	10:30 14:00	3.50	WOR	18		P		SET AND PULL TEST DEADMEN, SET CAT WALK AND PIPE RACKS, OFF LOAD TBG
	14:00 18:00	4.00	MIRU	01		P		MIRU, NU BOPE, RU WORK FLOOR AND TBG EQUIPMENT, PUMU & RIH W/ 4 1/8" BIT, BIT SUB, 52 JTS 2 3/8" TBG, SWI, SHUT DOWN FOR DAY
12/4/2014	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (PU TBG)
	7:30 16:00	8.50	WOR	40		P		CIH W/ 35 JTS 2 3/8", X/O TO 2 7/8", 231 JTS 2 7/8", TAG @ 10,326' RU POER SWIVEL, BREAK CIRCULATION CLEAN OUT TO 10,327' TM W/ JT # 232, CIRCULATE CLEAN, RD SWIVEL
	16:00 17:30	1.50	WOR	24		P		RD SWIVEL, POOH W/ 79 JTS 2 7/8". SWI SHUT DOWN FOR DAY.
12/5/2014	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (POOH LAYING DOWN TBG)
	7:30 11:00	3.50	WOR	24		P		COOH LAYING DOWN 153 JTS 2 7/8", X/O TO 2 3/8", 87 JTS 2 3/8", BIT SUB, BIT
	11:00 15:00	4.00	RDMO	02		P		RD WORK FLOOR AND TBG EQUIPMENT, ND BOPE, NU FRAC VALVE, RDMOL TO DYE 3-28 A1.
	15:00 16:00	1.00	POST	18		P		RIH W/ CCL/CBL/GAMMA RAY PANEL INSIDE OF WIRELINE WOULD NOT RUN POWER TO TOOL POOH SHUT DOWN FOR DAY
12/6/2014	6:00 7:30	1.50	WLWORK	28		P		TRAVEL TO LOC HOLD SAFETY MTG ON W.L. SAFETY, WRITE & REVIEW JSA'S
	7:30 15:00	7.50	WLWORK	37		P		MIRU CUTTERS W.L. RIH W/ CCL/GR/CBL, TAG @ 10326', CORRELATE TO OPEN HOLE LOG, LOG FROM 10326' TO 2000' WHILE HOLDING 4000 PSI ON CSG, POOH RIG DWN WIRE LINE SECURE WELL SDFD
12/12/2014	7:00 7:30	0.50	MIRU	28		P		TGSM & JSA (NU PROCEDURES)
	7:30 12:30	5.00	MIRU	01		P		NU AND TEST STACK TO 10K, TEST CASING TO 9K AS PER PROCEDURE
12/13/2014	9:00 9:30	0.50	WLWORK	28		P		TGSM & JSA (PERFORATING)
	9:30 10:30	1.00	MIRU	01		P		RU WIRE LINE
	10:30 12:30	2.00	STG01	21		P		RIH W/ 2 3/4" OWEN SUPER HERO SDP, 15 GM CHARGES 3 JSPF W/ 120° PHASING PERFORATE STAGE 1 10,271' TO 9,956 W/ 1000 PSIG SURFACE PRESSURE. NO CHANGES.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	12:30 13:30	1.00	RDMO	02		P		RD WIRE LINE UNIT
12/14/2014	6:00 6:30	0.50	MIRU	28		P		TGSM & JSA (HEAT WATER RUN TRANSFER LINES)
	6:30 18:30	12.00	MIRU	01		P		HEAT WATER AND RUN TRANSFER LINES)
12/15/2014	6:00 6:30	0.50	MIRU	28		P		TGSM & JSA (RU FRAC EQUIPMENT)
	6:30 15:30	9.00	MIRU	01		P		MIRU WEATHERFORD FRAC EQUIPMENT
12/16/2014	6:00 7:00	1.00	STG01	28		P		CREW TRAVEL, SAFETY MEETING
	7:00 7:45	0.75	STG01	35		P		PT 9,350 PSIG, GOOD TEST
	7:45 8:30	0.75	STG01	35		P		EQUIPMENT CHECKS.
	8:30 9:50	1.33	STG01	35		P		SIP @ 190 PSIG BREAK DOWN STAGE 1 PERFS @4,241 PSIG @ 7 BPM ESTABLISH RATE TO 28.5 BPM @ 3,598 PSI ISDP @ 3,598 PSIG F.G @ .78 5/3,487 PSIG 10/3,426 PSIG 15/ TREAT STAGE 1 PERFS W/ 5000 GAL 15% HCL, 3240# 100 MESH IN 1/2 PPG STAGE. AND 149,940# 30/50 IN .5,1,2,3 PPG STAGES. FLUSH TO TOP PERF. ISDP @3,834PSIG F.G @ .81 . AVE HORSE POWER 8472 STAGE 1 FLUID TO RECOVER 3,779 BBLs.
	9:50 11:45	1.92	STG02	21		P		RIH W/ 2 3/4" OWEN SUPER HERO SDP, 15 GM CHARGES 3 JSPF W/ 120° PHASING SET CBP @ 9936'. PERFORATE STAGE 2: 9,921' TO 9,632' W/ 3,600 PSIG SURFACE PRESSURE. ENDING PSIG @ 3500 PSIG.
	11:45 13:00	1.25	STG02	35		P		SIP @ 3500 PSIG BREAK DOWN STAGE 2 PERFS @3,923 PSIG @ 11 BPM ESTABLISH RATE TO 28.5 BPM @ 3,569 PSI ISDP @ 3,569 PSIG F.G @ .78 5/3,512 PSIG 10/3,483 PSIG 15/ TREAT STAGE 2 PERFS W/ 5000 GAL 15% HCL, 3240# 100 MESH IN 1/2 PPG STAGE. AND 153,960# 30/50 IN .5,1,2,3 PPG STAGES. FLUSH TO TOP PERF. ISDP @3,616 PSIG F.G @ .80 . AVE HORSE POWER 8379 STAGE 2 FLUID TO RECOVER 3,772 BBLs. TT TO RECOVER:7,551 BBLs.
	13:00 14:00	1.00	STG03	21		P		RIH W/ 2 3/4" OWEN SUPER HERO SDP, 15 GM CHARGES 3 JSPF W/ 120° PHASING SET CBP @ 9616'. PERFORATE STAGE 3: 9,601' TO 9,362' W/ 3,600 PSIG SURFACE PRESSURE. ENDING PSIG @ 3500 PSIG
	14:00 16:05	2.08	STG03	35		P		SIP @ 3451 PSIG BREAK DOWN STAGE 3 PERFS @4,145 PSIG @ 10 BPM ESTABLISH RATE TO 28.5 BPM @ 3,508 PSI ISDP @ 3,508 PSIG F.G @ .79 5/3,480 PSIG 10/3,458 PSIG 15/ TREAT STAGE 3 PERFS W/ 5000 GAL 15% HCL, 3260# 100 MESH IN 1/2 PPG STAGE. AND 150,220# 30/50 IN .5,1,2,3 PPG STAGES. FLUSH TO TOP PERF. ISDP @3,548 PSIG F.G @ .80 . AVE HORSE POWER 8408 STAGE 3 FLUID TO RECOVER 3720 BBLs. TT TO RECOVER:11,271 BBLs.
	16:05 17:15	1.17	STG04	21		P		RIH W/ 2 3/4" OWEN SUPER HERO SDP, 15 GM CHARGES 3 JSPF W/ 120° PHASING SET CBP @ 9338'. PERFORATE STAGE 4: 9,323' TO 9,052' W/ 3,500 PSIG SURFACE PRESSURE. ENDING PSIG @ 3400
	17:15 4:00	10.75	STG04	35		P		FRAC PREP
	4:00 5:00	1.00	STG04	35		P		CREW TRAVEL, SAFETY MEETING, FRAC PREP
	5:00 6:00	1.00	STG04	35		P		SIP @ 3340 PSIG. BREAK DOWN STAGE 4 PERFS @3,709 PSIG @ 8 BPM ESTABLISH RATE TO 35 BPM @ 3,526 PSI ISDP @ 3,526 PSIG F.G @ .80 5/3,444 PSIG 10/3,415 PSIG 15/ TREAT STAGE 3 PERFS W/ 5000 GAL 15% HCL, 3200# 100 MESH IN 1/2 PPG STAGE. AND 150,020# 30/50 IN .5,1,2,3 PPG STAGES. FLUSH TO TOP PERF. ISDP @3,748 PSIG F.G @ .84 . AVE HORSE POWER 8408 STAGE 3 FLUID TO RECOVER 3727 BBLs. TT TO RECOVER:14,998 BBLs.
12/17/2014	6:00 6:30	0.50	STG04	35		P		COMPLETE FRAC STG# 4.
	6:30 9:10	2.67	STG05	21		N		PLUG DID NOT SET. SHORT IN GUN.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	9:10 10:20	1.17	STG05	21		P		RIH W/ 2 3/4" OWEN SUPER HERO SDP, 15 GM CHARGES 3 JSPF W/ 120° PHASING SET CBP @ 9027". PERFORATE STAGE 5: 9,012' TO 8,743' W/ 3,500 PSIG SURFACE PRESSURE. ENDING PSIG @ 3244 PSIG.
	10:20 11:45	1.42	STG05	35		P		SIP @ 3244 PSIG BREAK DOWN STAGE 5 PERFS @3,715 PSIG @ 10 BPM ESTABLISH RATE TO 35 BPM @ 3,423 PSI ISDP @ 3,423 PSIG F.G @ .80 5/3,304 PSIG 10/3,233 PSIG 15/ TREAT STAGE 5 PERFS W/ 5000 GAL 15% HCL, 3100# 100 MESH IN 1/2 PPG STAGE. AND 149,600# 30/50 IN .5,1,2,3 PPG STAGES. FLUSH TO TOP PERF. ISDP @3,716 PSIG F.G @ .85 . AVE HORSE POWER 8351 STAGE 5 FLUID TO RECOVER 3,762 BBLs. TT TO RECOVER:18,760 BBLs.
	11:45 12:50	1.08	STG06	21		P		RIH W/ 2 3/4" OWEN SUPER HERO SDP, 15 GM CHARGES 3 JSPF W/ 120° PHASING SET CBP @ 9027". PERFORATE STAGE 6: 8,714' TO 8,470' W/ 3,600 PSIG SURFACE PRESSURE. ENDING PSIG @ 3000 PSIG
	12:50 14:00	1.17	STG06	35		P		SIP @ 2897 PSIG BREAK DOWN STAGE 6 PERFS @3,343 PSIG @ 10 BPM ESTABLISH RATE TO 35 BPM @ 3,008 PSI ISDP @ 3,008 PSIG F.G @ .80 5/2,929 PSIG 10/2900 PSIG 15/ TREAT STAGE 6 PERFS W/ 5000 GAL 15% HCL, 3100# 100 MESH IN 1/2 PPG STAGE. AND 150320# 30/50 IN .5,1,2,3 PPG STAGES. FLUSH TO TOP PERF. ISDP @3,211 PSIG F.G @ .80 . AVE HORSE POWER 7719 STAGE 6 FLUID TO RECOVER 3,740 BBLs. TT TO RECOVER:22,500 BBLs.
	14:00 15:10	1.17	STG07	21		P		RIH W/ 2 3/4" OWEN SUPER HERO SDP, 15 GM CHARGES 3 JSPF W/ 120° PHASING SET CBP @ 8453". PERFORATE STAGE 7: 8,441' TO 8,184' W/ 3,000 PSIG SURFACE PRESSURE. ENDING PSIG @ 2,800
	15:10 16:40	1.50	STG07	35		P		SIP @ 2654 PSIG BREAK DOWN STAGE 7 PERFS @2,875 PSIG @ 11 BPM ESTABLISH RATE TO 35 BPM @ 3,279 PSI ISDP @ 2,739 PSIG F.G @ .80 5/2,657 PSIG 10/2632 PSIG 15/ TREAT STAGE 7 PERFS W/ 5000 GAL 15% HCL, 3100# 100 MESH IN 1/2 PPG STAGE. AND 149640# 30/50 IN .5,1,2,3 PPG STAGES. FLUSH TO TOP PERF. ISDP @2,997 PSIG F.G @ .79 . AVE HORSE POWER 6785 STAGE 7 FLUID TO RECOVER 3,746 BBLs. TT TO RECOVER:26246 BBLs
	16:40 18:00	1.33	STG08	21		P		RIH W/ 2 3/4" OWEN SUPER HERO SDP, 15 GM CHARGES 3 JSPF W/ 120° PHASING SET CBP @ 8157". PERFORATE STAGE 8: 8,142' TO 7,881' W/ 2,800 PSIG SURFACE PRESSURE. ENDING PSIG @ 2,400
	18:00 18:30	0.50	STG08	21		P		RDMO WL, SDFN
	18:30 6:00	11.50	STG08	35		P		SDFN
12/18/2014	6:00 7:30	1.50	STG08	35		P		CREW TRAVEL, SAFETY MEETING, WARM UP EQUIPMENT
	7:30 9:10	1.67	STG08	35		P		SIP @ 1931 PSIG BREAK DOWN STAGE 8 PERFS @3,011 PSIG @ 11 BPM ESTABLISH RATE TO 35 BPM @ 3136 PSI ISDP @ 2393 PSIG F.G @ .73 5/2114 PSIG 10/2067 PSIG 15/ TREAT STAGE 8 PERFS W/ 5000 GAL 15% HCL, 3000# 100 MESH IN 1/2 PPG STAGE. AND 150020# 30/50 IN .5,1,2,3 PPG STAGES. FLUSH TO TOP PERF. ISDP @2543 PSIG F.G @ .75 . AVE HORSE POWER 5106 STAGE 8 FLUID TO RECOVER 3,705 BBLs. TT TO RECOVER:29,951 BBLs.
	9:10 12:30	3.33	RDMO	02		P		RDMO FRAC EQUIPMENT.
	12:30 16:00	3.50	MIRU	01		P		MIRU CT. STACK WATER FROM FRAC TNKS.
	16:00 18:00	2.00	MIRU	01		P		STACK WATER, HEAT WATER FOR CT.
	18:00 18:30	0.50	MIRU	01		P		SDFN
	18:30 6:00	11.50	MIRU	01		P		SDFN

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
12/19/2014	6:00 7:45	1.75	CTU	16		P		CREW TRAVEL, SAFETY MEETING, COMPLETE RU CTU
	7:45 8:00	0.25	CTU	18		P		PT, 6,000 PSI, GOOD TEST.
	8:00 12:00	4.00	CTU	39		P		RIH W/ 4 1/8" BIT AND MOTOR. OPENNING CSG: 1,700 PSIG.
	12:00 13:00	1.00	CTU	39		P		CLN OUT TO 10,300'. CSG 2,800 PSIG. CIRC 1 HR WORKING TOOLS AT BOTTOM. 3 BPM. PUMPED 20 BBLS SWEEP.
	13:00 16:00	3.00	CTU	39		P		POOH SLOWLY. CIRC 3 BPM. CSG: 2,500 PSIG.
	16:00 18:30	2.50	CTU	16		P		LD BIT AND MOTOR. BLOW OUT CTU. RDMO. TURN TO FLOWBACK. OPEN WELL AT 12/64 CHOKE.
	18:30 6:00	11.50	FB	23		P		OPEN WELL 12/64" CHK. 2,550 PSIG. 0600: 0 BBLS OIL, 689 BBLS WATER, 0 GAS. 12/64" CHOKE, 2300 PSIG
12/20/2014	6:00 6:00	24.00	FB	19		P		FLOW BACK: CHOKE 12/64", CSG: 1875 PSIG, 0 OIL, 0 MCFD, 1305 BBLS WATER.
12/21/2014	6:00 6:00	24.00	FB	17		P		FLOWBACK: WATER: 706 BBLS, GAS: 0 MCFD, CHOKE 12/64", WH:1800 PSIG.
12/22/2014	6:00 6:00	24.00	FB	17		P		FLOWBACK: CHOKE:12/64", CSG:1775 PSIG, OIL: 28 BBLS, GAS: 0 MCF, WATER: 510 BBLS,
12/23/2014	6:00 7:00	1.00	FB	17		P		FB, CREW TRAVEL, MIRU WL
	7:00 9:00	2.00	INSTUB	16		P		MIRU WL,
	9:00 9:30	0.50	INSTUB	20		P		RIH W/ 5" ARROW SET PACKER W/ ON/OFF TL UP. SET @ 7,748'
	9:30 10:25	0.92	INSTUB	20		P		POOH LD WL TL. RDMO WL
	10:25 11:00	0.58	INSTUB	16		P		ND FRAC TREE, NU BOP.
	11:00 14:00	3.00	INSTUB	25		P		MIRU PU
	14:00 17:00	3.00	INSTUB	25		P		RIH W/ ON/OFF SKIRT, 5 JTS 2 3/8" N80 TBG, XOVER, 155: 2 7/8" N80 TBG. EOT:5065'.
	17:00 18:00	1.00	INSTUB	25		P		SWFN
18:00 6:00	12.00	INSTUB	25		P		SDFN	
12/24/2014	6:00 7:00	1.00	INSTUB	25		P		CREW TRAVEL, SAFETY MEETING
	7:00 8:30	1.50	INSTUB	25		P		OPENWELL(300 PSIG CSG). BLOW TO FRAC TNK. PMP 50 BBLS HOT 2% KCL DN TBG.
	8:30 10:00	1.50	INSTUB	25		P		RIH 2 7/8" TBG.
	10:00 11:00	1.00	INSTUB	25		P		DOUBLE BACK LINE. RIH. LATCH ON TO ON/OFF TL. PULL TEST. 30K OVER. GD TEST
	11:00 12:00	1.00	INSTUB	25		P		SPACE OUT TBG. TBG HANGER, 1 JT 2-7/8" TBG, 1-4' 2 7/8 SUB,232 JTS 2 7/8" TBG,XOVER, 5 JTS 2 3/8" TBG, ON/OFF SKIRT. 5" ARROWSET 1-X PACKER, 2 3/8" N80 TGB SUB, PUMP OUT PLUG, 2 7/8" N80 PERFORATED TBG SUB, 2 7/8" BULL PLUG. EOT: 7,782.89'
	12:00 14:15	2.25	INSTUB	25		P		PUMP 350 BBLS PACKER FLUID.
	14:15 15:00	0.75	INSTUB	25		P		LAND TBG, ND BOP, ND 7-1/16 10k VLV, NUWH.
	15:00 15:30	0.50	INSTUB	25		P		INSTALL FLOW LINES, PT CSG 1000 PSIG. GD TST.
	15:30 16:00	0.50	INSTUB	25		P		PUMP PLUG: 3,600 PSIG, 5 BBLS ADDITIONAL DN TBG. 2600 PSIG.
	16:00 17:00	1.00	RDMO	02		P		RIG DN. SDFW
17:00 6:00	13.00	FB	17		P		TURN TO FB. OPEN TO 12/64" CHOKE, 1900 PSIG TBG. 0600: 12/64 CHOKE, 1800PSIG TBG, 59BBLS OIL, 418 BBLS WATER, 8.9 MCF	
12/25/2014	6:00 6:00	24.00	FB	19		P		FLOW BACK CHK:12/64" TBG:1800 PSIG, OIL: 127 BBLS, WATER:661 BBLS, GAS: 127 MCFD.
12/26/2014	6:00 6:00	24.00	FB	19		P		FLOWBACK, CHK:12/64", TBG: 1800 PSIG, OIL: 174 BBLS, GAS: 160 MCFD, WATER: 526 BBLS
12/27/2014	6:00 6:00	24.00	FB	19		P		FLOWBACK: CHOKE:14/64", TBG:1600 PSIG, OIL: 232 BBLS, WATER: 588 BBLS, GAS: 182 MCFD
12/28/2014	6:00 6:00	24.00	FB	19		P		FLOWBACK: TBG:1500 PSIG, CHOKE:14/64, OIL:234 BBLS,WATER:553 BBLS, GAS: 204 MCFD, TOTAL LOAD TO RECOVER: 23,918 BBLS

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
12/29/2014	6:00 6:00	24.00	FB	19		P		FLOWBACK: TBG:1350 PSI, CHK:16/64, OIL:273BBLS, WATER:622BBLS, MCFD: 224, TOTAL LOAD TO RECOVER: 23,296 BBLS
12/30/2014	6:00 10:00	4.00	FB	19		P		RELEASED FLOWBACK AT 1000. CHK:16/64, TBG:1300 PSIG, OIL:49 BBLS, WATER:109 BBLS, GAS:55 MCFD. END

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CENTRAL DIVISION

ALTAMONT FIELD
CARMAN 2-36C5
CARMAN 2-36C5
DRILLING LAND

Operation Summary Report

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

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	CARMAN 2-36C5		
Project	ALTAMONT FIELD	Site	CARMAN 2-36C5
Rig Name/No.	PRECISION DRILLING/406	Event	DRILLING LAND
Start date	11/18/2014	End date	11/29/2014
Spud Date/Time	11/18/2014	UWI	CARMAN 2-36C5
Active datum	KB @5,742.5ft (above Mean Sea Level)		
Afe No./Description	161994/52743 / CARMAN 2-36C5		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
11/5/2014	6:00 18:00	12.00	CASCOND	24		P	0.0	SET 70' 20" CONDUCTOR, SET MOUSE HOLE @ 80'. ADDED RKB CORRECTION FOR PD 406.
	18:00 6:00		CASSURF	24		P	70.0	DRILL 12 1/4" HOLE TO 2,042'. RAN & CMT 2,012' 9-5/8" 40# N-80 LT&C. FC @ 1,974', SHOE 2,022'. ADDED RKB CORRECTION FOR PD 406.
11/16/2014	6:00 6:00	24.00	MIRU	01		P	2,042.0	MOVE IN & RIG UP. 99% MOVED IN, 35% RIGGED UP.
11/17/2014	6:00 6:00	24.00	MIRU	01		P	2,042.0	MOVE IN & RIG UP. PREP & RAISE DERRICK. PU TDU. 100% MOVED IN, 75% RIGGED UP.
11/18/2014	6:00 13:00	7.00	MIRU	01		P	2,042.0	PU TDU. RUN STEAM LINE & INSULATE PIPING. PERFORM RIG INSPECTION. RIG ON RATE @ 13:00 HRS 11/17/14.
	13:00 20:00	7.00	CASSURF	28		P	2,042.0	NU 11" 10M BOPE & INSTALL FLOW LINE.
	20:00 2:00	6.00	CASSURF	19		P	2,042.0	TESTED 11" 5M ANNULAR TO 250 / 2,500 PSI AND REMAINING BOPE, FLOOR VALVES, ETC TO 250 / 5,000 PSI. TESTED CHOKE MANIFOLD TO 250 / 10,000 PSI. HELD EACH TEST 10 MINUTES.
	2:00 4:00	2.00	CASSURF	31		P	2,042.0	TEST CASING TO 2,500 PSI FOR 30 MINUTES. TEST GOOD. INSTALL WEAR BUSHING.
11/19/2014	4:00 6:00	2.00	CASSURF	14		P	2,042.0	PU 8 3/4" BHA .
	6:00 10:00	4.00	CASSURF	14		P	2,042.0	PU BHA & TIH. TAG CMT @ 1,978'.
	10:00 11:30	1.50	CASSURF	17		P	2,042.0	S & C DRILL LINE.
	11:30 12:30	1.00	CASSURF	32		P	2,042.0	DRILL OUT CMT, FE & 10'.
	12:30 13:00	0.50	CASSURF	33		P	2,052.0	PERFORM FIT TO 15.4 EMW WITH 9.8 PPG MUD @ 600 PSI.
	13:00 14:00	1.00	DRLINT1	07		P	2,052.0	DRILLED 2,052' - 2,187'. SPUD @ 13:00 HRS 11/18/14
	14:00 14:30	0.50	DRLINT1	45		N	2,187.0	CHANGE VALVE IN # 1 MP.
	14:30 16:30	2.00	DRLINT1	07		P	2,187.0	DRILLED 2,187' - 2,380'.
	16:30 17:00	0.50	DRLINT1	12		P	2,380.0	SERVICED RIG & TDU.
	17:00 23:30	6.50	DRLINT1	07		P	2,380.0	DRILLED 2,380' - 3232'.
11/20/2014	23:30 0:00	0.50	DRLINT1	12		P	3,232.0	SERVICED RIG & TDU.
	0:00 6:00	6.00	DRLINT1	07		P	3,232.0	DRILLED 3232' - 3920'.
	6:00 13:30	7.50	DRLINT1	07		P	3,920.0	DRILLED 3,920' - 4,977'.
	13:30 14:00	0.50	DRLINT1	12		P	4,977.0	SERVICED RIG & TDU.
	14:00 1:30	11.50	DRLINT1	07		P	4,977.0	DRILLED 4,977' - 5,773'.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	1:30 2:00	0.50	DRLINT1	45		N	5,773.0	REPLACE VALVE & SEAT IN # 1 MUD PUMP. CLEAN SUCTION SCREEN & SUCTION.
	2:00 2:30	0.50	DRLINT1	07		P	5,773.0	DRILLED 5,773' - 5,843'.
	2:30 3:30	1.00	DRLINT1	45		N	5,843.0	REPLACE SWAB IN # 1 MP.
	3:30 4:30	1.00	DRLINT1	07		P	5,843.0	DRILLED 5,843' - 5,939'
	4:30 5:00	0.50	DRLINT1	43		N	5,939.0	REPLACE GRABBER DIES.
	5:00 6:00	1.00	DRLINT1	07		P	5,939.0	DRILLED 5,939' - 5,950'.
11/21/2014	6:00 13:30	7.50	DRLINT1	07		P	5,950.0	DRILLED 5,950' - 6,318'.
	13:30 14:00	0.50	DRLINT1	12		P	6,318.0	SERVICED RIG & TDU.
	14:00 14:30	0.50	DRLINT1	43		N	6,318.0	REPAIR TDU EXTEND ALARM.
	14:30 23:30	9.00	DRLINT1	07		P	6,318.0	DRILLED 6,318' - 6,990'.
	23:30 0:00	0.50	DRLINT1	12		P	6,990.0	SERVICED RIG & TDU.
	0:00 6:00	6.00	DRLINT1	07		P	6,990.0	DRILLED 6,990' - 7,378'.
11/22/2014	6:00 13:00	7.00	DRLINT1	07		P	7,378.0	DRILLED 7,378' - 7,756'.
	13:00 13:30	0.50	DRLINT1	12		P	7,756.0	SERVICED RIG & TDU.
	13:30 15:30	2.00	DRLINT1	07		P	7,756.0	DRILLED 7,756' - 7,858'. INTERMEDIATE TD.
	15:30 17:30	2.00	EVLINT1	15		P	7,858.0	SIMULATE CONN & CBU. FC, WELL STATIC.
	17:30 22:00	4.50	EVLINT1	13		P	7,858.0	POOH.
	22:00 22:30	0.50	EVLINT1	12		P	7,858.0	SERVICED RIG & TDU.
	22:30 23:30	1.00	EVLINT1	13		P	7,858.0	FINISH OUT OF HOLE. LD BHA.
	23:30 0:00	0.50	EVLINT1	42		P	7,858.0	CLEAN UP RIG FLOOR.
	0:00 0:30	0.50	EVLINT1	13		P	7,858.0	PULL WEAR BUSHING.
0:30 6:00	5.50	EVLINT1	13		P	7,858.0	MU BIT. TIH.	
11/23/2014	6:00 9:00	3.00	DRLINT1	15		P	7,858.0	CIRC BU. MAX GAS 7,421 UNITS (PASON), NO FLARE, NO GAIN, 8/10 MC. C&C MUD TO 10.2 PPG. FINAL BG GAS 78 UNITS.
	9:00 16:30	7.50	EVLINT1	14		P	7,858.0	FLOW CHECK, WELL STATIC. POOH LD DP & BHA. FC @ SHOE & BHA, WELL STATIC.
	16:30 17:00	0.50	EVLINT1	12		P	7,858.0	SERVICE RIG & TDU.
	17:00 22:00	5.00	EVLINT1	22		P	7,858.0	PJSM. RU & RUN HES STANDARD QUAD COMBO TO 7,858'. LOG UP FROM 7,858'. RD WL.
	22:00 6:00	8.00	CASINT1	24		P	7,858.0	PJSM. RU FRANKS CSG CREW & TORQ TURN. MU FLOAT EQUIP & CHECK SAME. OK. CONTINUE RUNNING 7" CSG. FILL EVERY 10 JTS. BREAK CIRC EVERY 1,000'.
11/24/2014	6:00 15:30	9.50	CASINT1	24		P	7,858.0	RAN 189 JTS 7" 20# HCP-110 LT&C CSG TO 7,858'. FLOAT COLLAR @ 7,813, MARKER JT @ 5,775'. CBU @ SHOE. CIRC EVERY 1,000' FOR 10 MIN. NO LOSSES.
	15:30 17:00	1.50	CASINT1	15		P	7,858.0	C&C MUD @ 2.6 - 6 BPM. MAX GAS 2,127 UNITS. NO FLARE. NO LOSSES.
	17:00 20:00	3.00	CASINT1	25		P	7,858.0	M&P PUMPED 40 BBLS 11.2 PPG TUNED SPACER. 425 SXS (146.8 BBLS) EXTENDACHEM LEAD CMT @ 12.5 PPG, 1.94 YLD TAILED WITH 330 SXS (96.4 BBLS) OF EXPANDACHEM CMT @ 13 PPG, 1.64 YIELD. RELEASED TOP PLUG. DISPLACED WITH 290 BBLS OF 10 PPG MUD @ 6 - 4 BPM. BUMPED PLUG @ 19:35 HRS 11/23/14 WITH 2,030 PSI. 2 BBL BLEED BACK, FLOATS HELD. RD CEMENTERS. LOST 96 BBLS DURRING CMT OPS. EST TOC 2,657'.
	20:00 22:00	2.00	CASINT1	27		P	7,858.0	LD LANDING JT. INSTALL & TEST PACK-OFF TO 5,000 PSI FOR 10MIN.
	22:00 23:00	1.00	CASINT1	31		P	7,858.0	TEST CASING TO 2,500 PSI FOR 30 MINUTES WHILE CO TDU SAVER SUB TO 4" XT-39.
	23:00 0:00	1.00	CASINT1	19		P	7,858.0	SET TEST PLUG & ATTEMPT TO TEST. TEST UNIT FAILED.
	0:00 2:30	2.50	CASINT1	45		N	7,858.0	WAIT ON REPLACEMENT PUMP.

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	CASINT1	19		P	7,858.0	TESTING 11" 5M ANNULAR TO 250 / 4,000 PSI, RAMS & REMAINING BOPE, FLOOR VALVES, ETC TO 250 / 10,000 PSI. HOLD EACH TEST 10 MINUTES.
11/25/2014	6:00 8:00	2.00	CASINT1	19		P	7,858.0	FINISH TESTING BOPE. RD TESTER.
	8:00 17:00	9.00	CASINT1	14		P	7,858.0	MU 4-3/4" BHA. TIH PICKING UP DP.
	17:00 19:00	2.00	CASINT1	17		P	7,858.0	S&C DRILL LINE.
	19:00 20:30	1.50	CASINT1	32		P	7,858.0	TAG FC @ 7,813'. DRILL OUT FE, SHOE TRACK & 10'.
	20:30 21:00	0.50	CASINT1	33		P	7,868.0	CBU & PERFORM FIT TO 15.4 EMW WITH 9.8 PPG MUD @ 2,288 PSI.
	21:00 0:30	3.50	DRLPRD	07		P	7,868.0	DRILLED 7,868' - 8,443'.
	0:30 1:30	1.00	DRLPRD	11		P	8,443.0	CIRC & SURVEY. 5.07* @ 8,407'.
	1:30 4:30	3.00	DRLPRD	07		P	8,443.0	DRILLED 8,443' - 8727'.
	4:30 5:00	0.50	DRLPRD	12		P	8,727.0	SERVICED RIG AND TDU. CIRCULATE FOR WIRELINE SURVEY.
5:00 6:00	1.00	DRLPRD	11		P	8,727.0	WIRELINE SURVEY.	
11/26/2014	6:00 11:00	5.00	DRLPRD	07		P	8,727.0	DRILLED 8,727' - 9,199'.
	11:00 12:00	1.00	DRLPRD	11		P	9,199.0	CIRC & RAN SL SURVEY. 5.05° @ 9,166'.
	12:00 15:30	3.50	DRLPRD	07		P	9,199.0	DRILLED 9,199' - 9,577'.
	15:30 16:00	0.50	DRLPRD	12		P	9,577.0	SERVICED RIG & TDU.
	16:00 22:00	6.00	DRLPRD	07		P	9,577.0	DRILLED 9,577' - 10,343'.
	22:00 22:30	0.50	DRLPRD	12		P	13,343.0	SERVICED RIG & TDU.
	22:30 23:00	0.50	DRLPRD	07		P	10,416.0	DRILLED 10,343' - 10,416'. TD PRODUCTION SECTION @ 2300 HRS 11/25/14.
	23:00 0:00	1.00	EVLPRD	15		P	10,416.0	SIMULATE CONNECTION. CCM. BG GAS 45 UNITS. BU 2,575 UNITS. NOFLARE. MUD CUT FROM 10.6 TO 10.4 PPG. FLOW CHECK. WELL STATIC.
	0:00 3:00	3.00	EVLPRD	13		P	10,416.0	WIPER TRIP TO SHOE @ 7,858'.
3:00 6:00	3.00	EVLPRD	15		P	10,416.0	CCM. TRIP GAS 6500 UNITS (PASON), 2600 UNITS (MUD LOGGER), 10-15' FLARE FOR 10 MIN, MC F/ 10.7 PPG T/ 9.9 PPG. RMW F/ 10.7 PPG T/ 11.0 PPG.	
11/27/2014	6:00 7:30	1.50	DRLPRD	15		P	10,416.0	C & C MUD.
	7:30 13:00	5.50	DRLPRD	13		P	10,416.0	POOH TO LOG & RUN 5" LINER. (DROPPED RABBIT) FLOW CK @ 10,416', 7,850', 5,000', 2,000'. PULL ROTATING RUBBER.
	13:00 14:00	1.00	DRLPRD	12		P	10,416.0	SERVICE RIG & CLEAN FLOOR TO PREPARE TO LOG.
	14:00 21:30	7.50	EVLPRD	22		P	10,416.0	PJSM. RU HES LOGGING UNIT. RUN ULTRA SLIM COMBO W/ HALLIBURTON ELOG. DENSITY TOOL NOT WORKING. POOH AND PU NEW TOOL. TAG BOTTOM 10,414'. LOG WELLBORE F/ 10,414' T/ 7858'. RD HES LOGGING UNIT. LOWERED MW IN PITS F/ 11.0 PPG T/ 10.7 PPG.
	21:30 22:30	1.00	CASPRD1	24		P	10,416.0	PJSM. RU FRANKS CASING CREW & TORQUE TURN.
	22:30 3:00	4.50	CASPRD1	24		P	10,416.0	MU SHOE TRACK AND TEST. RAN 66 JTS 18 # HCP-110 STL LINER. 2 MARKER JTS. BROKE CIRC @ 1300'. MADE UP VERSAFLEX LINER HANGER ASSEMBLY & SETTING TOOL.
	3:00 4:00	1.00	CASPRD1	15		P	10,416.0	INSTALLED RH ELEMENT. CIRC LINER VOLUME @ 2.5 BPM. RD CSG CREW.
	4:00 6:00	2.00	CASPRD1	24		P	10,416.0	TIH W/ 5" LINER ON 4" DP @ 75 FPM.
	6:00 14:30	8.50	CASPRD1	13		P	10,416.0	TIH W/ 5" LINER ON 4" DP @ 90 FPM. FILL EVERY 1,000'. TAG BTM WITH 10K. NO LOSSES. SPACED OUT.
11/28/2014	14:30 17:30	3.00	CASPRD1	15		P	10,416.0	CIRC 2X BU. INITIAL RATE 1 BPM, INCREASED TO 2.5 BPM, PRESSURE LEVELED OFF AFTER 20 MIN. MAX GAS 9,275 UNITS FOR 30 MINUTES. MUD CUT TO 10.6 PPG. BG GAS 245 UNITS. FINAL CIRC PRESSURE 580 PSI @ 2.5 BPM. NO LOSSES DURING CIRCULATION.
	17:30 18:30	1.00	CASPRD1	65		N	10,416.0	C & C MUD. WAIT ON HALLIBURTON CEMENT.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	18:30 21:30	3.00	CASPRD1	25		P	10,416.0	PJSM. RU HES & TESTED LINES TO 9,500 PSI. PUMPED 20 BBLS 11.0 PPG TUNED SPACER & 205 SKS (54.4 BBLS) 14.2 PPG WITH 1.47 YIELD EXPANDACEM CMT. WASHED LINES. DROPPED DP DART. PUMPED 60 BBLS H2O WITH 2% KCL 0.1 % BIOCIDES, 64 BBLS 10.7 PPG MUD. BUMPED PLUG WITH 3,915 PSI. CHECKED FLOATS, FLOATS HELD, 2 BBLS BLED BACK. NO LOSSES DURING CMT OPS. EST TOC 7,663".
	21:30 22:00	0.50	CASPRD1	25		P	10,416.0	RELEASED BALL, RUPTURE DISC @ 5,507 PSI. PUMPED 36 BBLS, PRESSURED TO 7,680 PSI, EXPANDED HANGER. PULL TESTED LINER WITH 60K OVERPULL. SAT DOWN 70K, RELEASED SETTING TOOL FROM LINER HANGER. LANDED FS @ 10,414', FC @ 10,370', LC @ 10,327'. TOL @ 7,663'. 195' OF LAP. TOTAL LINER 2,752'. MARKER JT TOPS @ 9,374' & 8,385'.
	22:00 23:30	1.50	CASPRD1	15		P	10,416.0	PULLED UP TO TOL. OBSERVED 3 OVERPULLS OF 5K THROUGH CLAD SECTION. CIRC 2 TIMES ANNULAR VOLUME. 20 BBLS WEIGHTED SPACER & 10 BBLS WEIGHTED CEMENT TO SURFACE. POSITIVE TEST TOL TO 1,000 PSI FOR 10MIN.
	23:30 2:00	2.50	CASPRD1	15		P	10,416.0	PUMPED 300 BBLS H2O WITH NO ADDITIVES, 262 BBLS H2O WITH 2% KCL 0.1 % BIOCIDES TILL CLEAN RETURNS. RD HES.
	2:00 6:00	4.00	CASPRD1	14		P	10,416.0	POOH LAYING DOWN 4" DP.
11/29/2014	6:00 14:00	8.00	CASPRD1	14		P	10,416.0	LD 4" DP. RUN DP & DC OUT OF DERRICK. FINISH LD DP & BHA.
	14:00 18:00	4.00	CASPRD1	29		P	10,416.0	ND BOPE.
	18:00 21:00	3.00	CASPRD1	27		P	10,416.0	INSTALL TBG HEAD & FRAC VALVE. TESTED HEAD TO 5,000 PSI FOR 15 MIN. RIG RELEASED @ 21:00 HRS 11/28/14.
	21:00 6:00	9.00	RDMO	02		P	10,416.0	PJSM. RD & PREP RIG FOR MOVE TO THE VASQUEZ 3-7C4.

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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Carman 2-36C5
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013530950000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1603 FNL 1579 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 36 Township: 03.0S Range: 05.0W Meridian: U	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/29/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Please see attached procedure.

Approved by the
March 28, 2016
Oil, Gas and Mining

Date: _____

By: 

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/24/2016	

Carman 2-36C5 Recom Summary Procedure

- POOH with rods, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- Set 15k CBP for 5" 18# casing @ 7,846' with 15' of CMT on top.
- Stage 1:
 - Perforate new UW/LGR interval from **7,673' – 7,806'**.
 - Prop Frac perforations with **75,000** lbs 30/50 prop (w/ **5,000** lbs 100 mesh & **12,000** gals 15% HCl acid) (Stage 1 Recom).
- Stage 2:
 - RIH with 5" CBP & set @ 7,281'.
 - Perforate new LGR interval from **7,232' – 7,266'**.
 - Prop Frac perforations with **20,000** lbs 30/50 prop (w/ **5,000** lbs 100 mesh & **5,000** gals 15% HCl acid) (Stage 2 Recom).
- Stage 3:
 - RIH w/ 5" CBP & set @ 7,199'.
 - Perforate new LGR interval from **7,128 – 7,184'**.
 - Acid Frac Perforations with **5,000** gals 15% HCl acid (Stage 3 Recom).
- Stage 4:
 - RIH w/ 7" CBP & set @ 6,937'.
 - Perforate new LGR interval from **6,776' – 6,922'**.
 - Prop Frac perforations with **90,000** lbs 30/50 prop (w/ **5,000** lbs 100 mesh & **6,000** gals 15% HCl acid) (Stage 4 Recom).
- Clean out well drilling up (3) 7" CBPs, leaving 5" 15k CBP @ 7,846' w/ 15' CMT. (PBSD @ 7,831'). Top perf BELOW plugs @ 7,881'.
- RIH w/ production tubing and rods.
- Clean location and resume production.

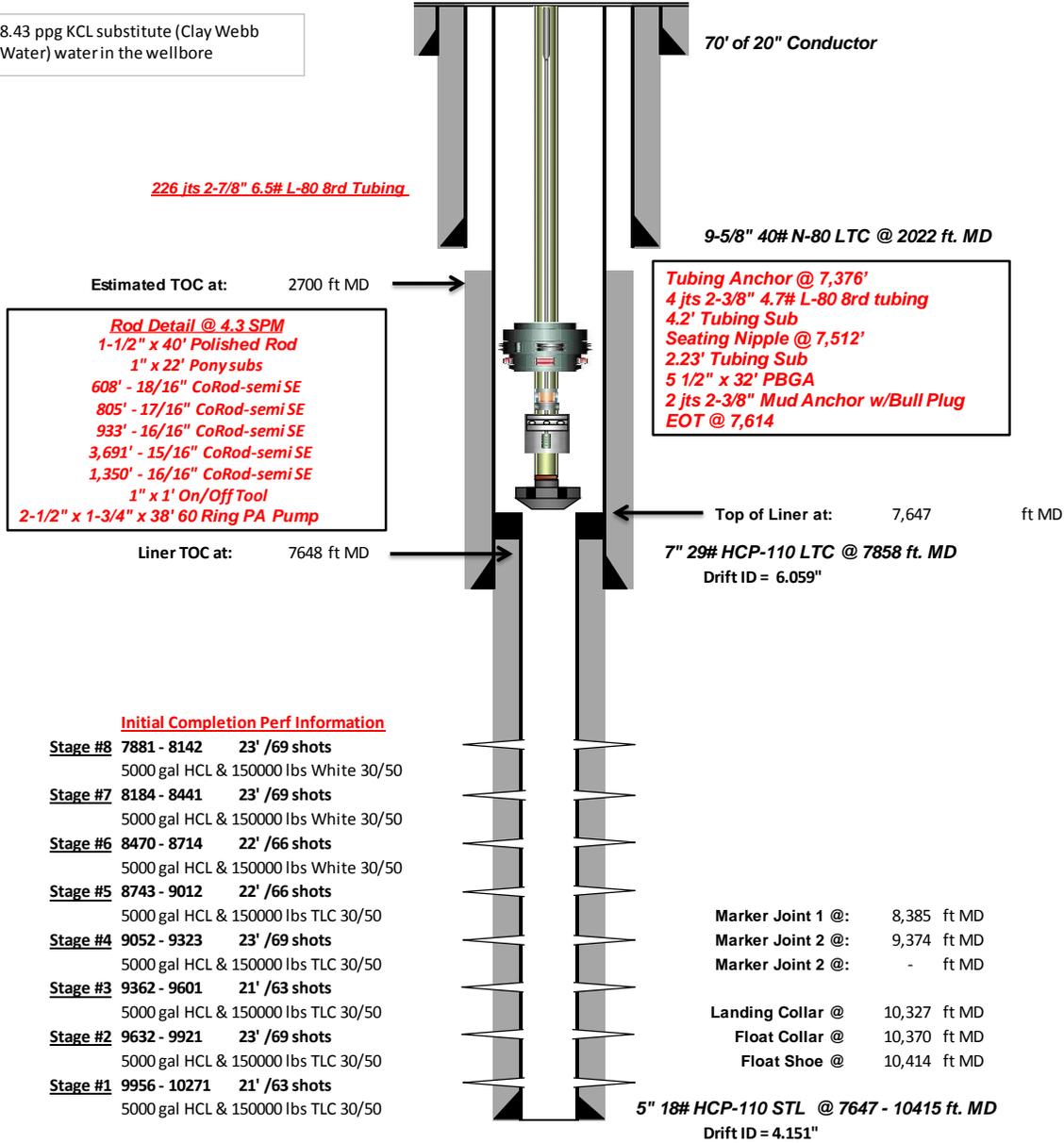


Current Wellbore Schematic

Well Name: **Carmen 2-36C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 10' 46.320" N Long: 110 23' 41.825" W**
 Producing Zone(s): **Upper Wasatch**

Last Updated: **1/26/2015**
 By: **Kerr**
 TD: **10,414**
 API: **43013530950000**
 AFE: **0**

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



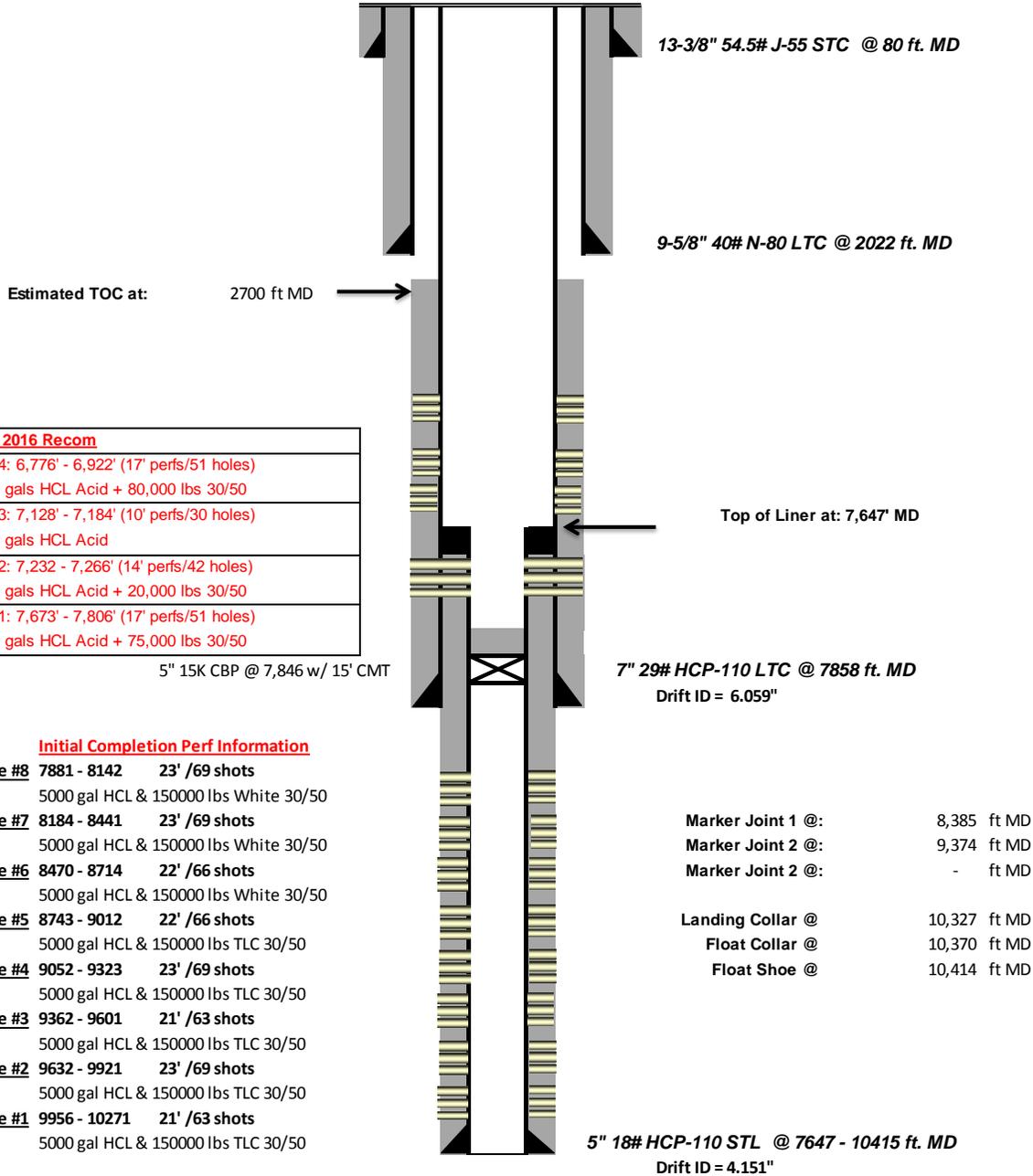


Proposed Pumping Wellbore Schematic

Carmen 2-36C5

EP Energy
Altamont, Duchesne, UT
Lat: 40 10' 46.320" N Long: 110 23' 41.825" W
Upper Wasatch, LGR

Last Updated: 3/23/2016
 By: Weitzel
 TD: 10,414
 API: 43013530950000
 AFE: 0



April 2016 Recom	
STG 4: 6,776' - 6,922' (17' perfs/51 holes)	9,000 gals HCL Acid + 80,000 lbs 30/50
STG 3: 7,128' - 7,184' (10' perfs/30 holes)	7,000 gals HCL Acid
STG 2: 7,232' - 7,266' (14' perfs/42 holes)	5,000 gals HCL Acid + 20,000 lbs 30/50
STG 1: 7,673' - 7,806' (17' perfs/51 holes)	9,000 gals HCL Acid + 75,000 lbs 30/50

5" 15K CBP @ 7,846 w/ 15' CMT

Initial Completion Perf Information

Stage #8	7881 - 8142	23' /69 shots
	5000 gal HCL & 150000 lbs White 30/50	
Stage #7	8184 - 8441	23' /69 shots
	5000 gal HCL & 150000 lbs White 30/50	
Stage #6	8470 - 8714	22' /66 shots
	5000 gal HCL & 150000 lbs White 30/50	
Stage #5	8743 - 9012	22' /66 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #4	9052 - 9323	23' /69 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #3	9362 - 9601	21' /63 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #2	9632 - 9921	23' /69 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #1	9956 - 10271	21' /63 shots
	5000 gal HCL & 150000 lbs TLC 30/50	

Marker Joint 1 @:	8,385 ft MD
Marker Joint 2 @:	9,374 ft MD
Marker Joint 2 @:	- ft MD
Landing Collar @	10,327 ft MD
Float Collar @	10,370 ft MD
Float Shoe @	10,414 ft MD

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

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

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

U . S . B . & M .

12. COUNTY

13. STATE

UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

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

2. NAME OF OPERATOR:

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

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

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

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

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

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

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

25. TUBING RECORD

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

26. PRODUCING INTERVALS

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

27. PERFORATION RECORD

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

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

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

30. WELL STATUS:

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

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

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

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

35. ADDITIONAL REMARKS (Include plugging procedure)

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

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

This report must be submitted within 30 days of

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

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

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

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

CENTRAL DIVISION

ALTAMONT FIELD
CARMAN 2-36C5
CARMAN 2-36C5
RECOMPLETE LAND

Operation Summary Report

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

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	CARMAN 2-36C5		
Project	ALTAMONT FIELD	Site	CARMAN 2-36C5
Rig Name/No.		Event	RECOMPLETE LAND
Start date	3/29/2016	End date	4/29/2016
Spud Date/Time	11/18/2014	UWI	CARMAN 2-36C5
Active datum	KB @5,742.5usft (above Mean Sea Level)		
Afe No./Description	166574/56518 / CARMAN 2-36C5		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
3/30/2016	6:00 7:30	1.50	MIRU	28		P		CT HOLD SAFETY MTG ON RU COROD RIG & OVER HEAD LOADS, WRITE & REVIEW JSA'S
	7:30 11:30	4.00	UNINARTL T	03		P		SLIDE P.U. BACK, SPOT IN RU COROD RIG, LD POLISH ROD, UNSEAT PUMP, FLUSH TBG W/ 60 BBLs, TOO H W/ 608' # 8, 805' # 7, 933' # 6, 3691' # 5, 1350' # 6, ON-OFF TOOL, STABILIZER SUB & PUMP, NIGHT CAP TBG CLOSE IN CSG VALVES, RIG DWN & MOVE OFF LOC W/ COROD RIG (# 5 COROD BAD FROM 3600' TO 5400' FROM WEAR & CORROSION)
	11:30 14:00	2.50	WOR	18		P		WAIT ON PEAK 1500 TO FINISH OTHER JOB & DRIVE TO LOC
	14:00 16:00	2.00	WOR	16		P		SPOT IN & RU PEAK 1500, X OVER TO TBG EQUIP, NDWH, PU ON TBG BREAK OUT LD B-FLANGE, MU 6' TBG SUB & TBG HANGER LAND TBG ON HANGER, NU 5K BOP & TEST TO 5000 PSI W/ HOT OILER, GOOD TEST
	16:00 19:00	3.00	WOR	39		P		RELEASE 7" TAC @ 7378', LD TBG HANGER & 6' TBG SUB, RU TBG SCANNERS, SCAN OUT OF HOLE W/ 230 JTS 2-7/8" EUE L-80 TBG, 220 JTS YELLOW BAND & LD 10 JTS BLUE BAND, LD PROD BHA, RIG DWN TBG SCANNERS, RIH OUT OF DERRICK W/ 40 JTS 2-7/8" EUE L-80 TBG, SHUT & LOCK PIPE RAMS, SHUT TIW VALVE & NIGHT CAP, CLOSE CSG VALVES & BULL PLUG THEM SDFN
3/31/2016	6:00 7:30	1.50	WOR	18		P		NO ACTIVITY ON LOC, ATTEND CONSULTANT QUARTERLY MTG
4/1/2016	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON WORKING W/ W.L., WRITE & REVIEW JSA'S
	7:30 8:30	1.00	WOR	39		P		SIC & SITP 50 PSI BLOW DWN WELL, TOO H W/ 40 JTS 2-7/8" EUE L-80 TBG
	8:30 11:30	3.00	WLWORK	26		P		RU WIRE LINE, RIH W/ 5.90 GR/JB TO 5" LT @ 7647', 4-1/8" GR/JB TO 7881', RIH SET 5" 15K MAGNUM CBP @ 7846'
	11:30 12:30	1.00	WOR	06		P		FILL CSG W/ 257 BBLs TREATED 2% KCL, 0 PSI ON WELL BEFORE SETTING PLUG & AFTER, FLUID LEVEL WAS @ 6925'
	12:30 13:30	1.00	WLWORK	18		P		RIH W/ WIRE LINE & DUMP BAIL 15' CMT ON TOP OF 5" CBP @ 7846', NEW PBTD IS 7831', POOH RIG DWN & MOVE OFF LOC W/ WIRE LINE EQUIP
	13:30 14:30	1.00	WOR	16		P		RIG DWN WORK FLOOR, NDBOP, NU 7" 10K MASTER VALVE & NIGHT CAP, CLOSE MASTER VALVE, CLOSE & NIGHT CAP CSG VALVES SDFN

4/2/2016

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON NU FRAC STACK & USING TAG LINES, WRITE & REVIEW JSA'S
	7:30 10:30	3.00	WOR	16		P		0 PSI ON CSG, ND 7" NIGHT CAP OFF 10K FRAC VALVE, PRESSURE TEST CSG TO 8000' PSI FOR 15 MIN GOOD TEST, CONT RU FRAC STACK, TEST STACK TO 9500 PSI FOR 15 MIN GOOD TEST, RUN FLOW BACK LINES FROM CSG TO FLOW BACK TANKS & TEST TO 8000 PSI GOOD TEST
	10:30 12:30	2.00	WLWORK	21		P		RU W.L. & 5K LUBRICATOR & TEST TO 4800 PSI GOOD TEST, RIH & PERF STG 1 PERFS FROM 7806' TO 7673', USING 3-1/8" TAG-RTG GUNS, 22.7 GRM CHARGES 3 SPF @ 120 DEG PHASING, STARTING PSI 1000 PSI, ENDING PRESSURE 800 PSI, ALL PERF CORRELATED TO CUTTERS W.L. CBL/GR/CCL LOG DATED 12/5/2014, POOH CLOSE 7" MASTER VALVE, LD GUN, CLOSE & LOCK HCR VALVES, CSG VALVES CLOSED & NIGHT CAPPED, SDFW
4/3/2016	6:00 6:00	24.00	WOR	18		P		HEAT FRAC WTR
4/4/2016	6:00 6:00	24.00	WOR	18		P		MIRU C & J FRAC EQUIPMENT
4/5/2016	6:00 7:15	1.25	STG01	28		P		CT HOLD SAFETY MTG ON FRACING & W.L. OPERATIONS, WRITE & REVIEW JSA'S
	7:15 8:30	1.25	STG01	35		P		PRESSURE TEST PUMP LINES TO 9572 PSI. OPEN WELL. SICP 173 PSI. BREAK DOWN STAGE 1 PERFORATIONS @ 3808 PSI, PUMPING 5.5 BPM, TREAT STG 1 PERFS W/ 9000 GALLONS 15% HCL ACID, FLUSH 10 BBLS PAST BTM PERF, PERFORM STEP RATE SHUT DOWN TEST. ISIP 2015 PSI. FG .69. 5 MIN 1695 PSI. 10 MIN 1562 PSI. 15 MIN 1461 PSI. TREAT STAGE 1 PERFORATIONS W/ 5000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 74896 LBS WHITE 30/50 SAND IN 1/2 PPG, 1 PPG, 1 PPG, 1.75 PPG & 2.5 PPG STAGES. ISIP 2529 PSI. FG .76. AVG RATE 75.9 BPM. MAX RATE 77.4 BPM. AVG PSI 4053 PSI. MAX PSI 4672 PSI. 5 MIN 2265 PSI, 10 MIN 2183 PSI, SHUT IN WELL & TURN OVER TO WIRE LINE CREW.
	8:30 11:15	2.75	STG02	21		P		TEST LUBRICATOR TO 4800 PSI, RIH & SET 7" CBP @ 7281'. PERFORATE STAGE 2 PERFORATIONS FROM 7266' TO 7232', USING 3-1/8" TAG-RTG GUNS, 22.7 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO THE CUTTERS W.L. CBL/GR/CCL RUN 1 LOG DATED 12/05/2014, STARTING PRESSURE 1800 PSI, ENDING 0 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW.
	11:15 13:00	1.75	STG02	35		P		PRESSURE TEST PUMP LINES TO 9581 PSI. OPEN WELL. SICP 244 PSI. BREAK DOWN STAGE 2 PERFORATIONS @ 4726 PSI, PUMPING 5.7 BPM, TREAT STG 2 PERFS W/ 5000 GALLONS 15% HCL ACID, FLUSH 10 BBLS PAST BTM PERF, PERFORM STEP RATE SHUT DOWN TEST. ISIP 2140 PSI. FG .73. 5 MIN 1722 PSI. 10 MIN 1595 PSI. 15 MIN 1516 PSI. TREAT STAGE 2 PERFORATIONS W/ 5000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 3000 LBS WHITE 30/50 SAND IN 1/2 PPG, STAGE DUE TO PRESSURE. ISIP 4962 PSI. FG 1.12. AVG RATE 41.3 BPM. MAX RATE 49.7 BPM. AVG PSI 5452 PSI. MAX PSI 6516 PSI. 5 MIN 4255 PSI, 10 MIN 3902 PSI, SHUT IN WELL & TURN OVER TO WIRE LINE CREW.
	13:00 14:15	1.25	STG03	21		P		TEST LUBRICATOR TO 4800 PSI, RIH & SET 7" CBP @ 7199'. PERFORATE STAGE 3 PERFORATIONS FROM 7184' TO 7128', USING 3-1/8" TAG-RTG GUNS, 22.7 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO THE CUTTERS W.L. CBL/GR/CCL RUN 1 LOG DATED 12/05/2014, STARTING PRESSURE 1700 PSI, ENDING 1200 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	14:15 15:15	1.00	STG03	35		P		PRESSURE TEST PUMP LINES TO 9542 PSI. OPEN WELL. SICP 719 PSI. BREAK DOWN STAGE 3 PERFORATIONS @ 2383 PSI, PUMPING 5.8 BPM, PUMPED A TOTAL OF 71 BBLS & SHUT DWN, ISIP 3844 PSI, F.G. .97, 5 MIN 2216 PSI, 10 MIN 1577 PSI, 15 MIN 1391 PSI, TREAT STG 3 PERFS W/ 7000 GALLONS 15% HCL ACID, SPACING OUT & DROPPING 36 BIO BALLS, FLUSH 10 BBLS PAST BTM PERF. ISIP 2117 PSI. FG .73. 5 MIN 1456 PSI. 10 MIN 1237 PSI. SHUT WELL IN & TURN OVER TO W.L. CREW.
	15:15 17:00	1.75	STG04	21		P		TEST LUBRICATOR TO 4800 PSI, RIH & SET 7" CBP @ 6937'. PERFORATE STAGE 4 PERFORATIONS FROM 6922' TO 6776', USING 3-1/8" TAG-RTG GUNS, 22.7 GRAM CHARGES, 3 SPF, 120 DEGREE PHASING. ALL PERFS CORRELATED TO THE CUTTERS W.L. CBL/GR/CCL RUN 1 LOG DATED 12/05/2014, STARTING PRESSURE 800 PSI, ENDING 500 PSI, POOH W/ W.L., SHUT WELL IN & TURN OVER TO FRAC CREW.
	17:00 18:15	1.25	STG04	35		P		PRESSURE TEST PUMP LINES TO 9580 PSI. OPEN WELL. SICP 204 PSI. BREAK DOWN STAGE 4 PERFORATIONS @ 1935 PSI, PUMPING 6.1 BPM, TREAT STG 4 PERFS W/ 9000 GALLONS 15% HCL ACID, FLUSH 10 BBLS PAST BTM PERF, PERFORM STEP RATE SHUT DOWN TEST. ISIP 1397 PSI. FG .64. 5 MIN 1234 PSI. 10 MIN 1086 PSI. 15 MIN 1010 PSI. TREAT STAGE 4 PERFORATIONS W/ 5000 LBS 100 MESH SAND IN 1/2 PPG STAGE & 97139 LBS WHITE 30/50 SAND IN 1/2 PPG, 1 PPG, 1 PPG, 1.75 PPG & 2.5 PPG STAGES. ISIP 1770 PSI. FG .69. AVG RATE 75.2 BPM. MAX RATE 76.5 BPM. AVG PSI 2490 PSI. MAX PSI 3051 PSI. SHUT IN 7" MASTER VALVE, 7" HCR VALVES & LOCK
	18:15 21:30	3.25	RDMO	02		P		RIG DWN WIRE LINE EQUIP & MOVE OFF LOC, LEAVE WELL SHUT IN & TURN OVER TO FLOW BACK CREW
	21:30 6:00	8.50	FB	19		P		OPEN WELL TO FLOW BACK TANK ON 12/64 CHOKE @ 500 PSI, FLOWED BACK 266 BBLS WATER, CURRENT PRESSURE 350 PSI
4/6/2016	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON ND FRAC STACK WRITE & REVIEW JSA'S, LEAVE WELL FLOWING TO FLOW BACK TANKS, CURRENT PRESSURE 150 PSI
	7:30 6:00	22.50	WOR	16		P		ND 7" W.L. FLANGE, TOP 7" HCR VALVE & 7" GOAT HEAD, NU 7" 10K NIGHT CAP ON BTM HCR VALVE, RIG DWN & MOVE OFF LOC W/ FRAC EQUIP, CURRENT CSG PRESSURE 125 PSI, FLOWING ON 24, CHOKE, FLOWED 686 BBLS WTR
4/7/2016	6:00 6:00	24.00	FB	19		P		HOLD SAFETY MTG ON CHANGING CHOKES, WRITE & REVIEW JSA'S, CURRENT PRESSURE 25 PSI, FLOWING ON 40 CHOKE, FLOWED 513 BBLS WATER & 260 BBLS OIL
4/8/2016	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON NDHCR VALVE & NUBOP, WRITE & REVIEW JSA'S
	7:30 11:00	3.50	WOR	16		P		200 PSI ON CSG, PUMP 100 BBLS BRINE DWN CSG TO KILL WELL, ND 7" HCR VALVE, NU & TEST 5K BOP TO 4800 PSI (BLIND RAMS & PIPE RAMS, RU WORK FLOOR & TBG TONGS
	11:00 14:00	3.00	WOR	39		P		MU & TIH W/ 6" ROCK BIT, BIT SUB, TALLY & RIH OUT OF DERRICK W/ 213 JTS 2-7/8" TBG, TAG 7" CBP @ 6937', LD 1 JT 2-7/8" TBG, RU POWER SWIVEL, MU JT W/ SWIVEL, BEGIN CIRC
	14:00 19:00	5.00	WOR	10		P		DRILL OUT 7" CBP @ 6937', CIRC TBG CLEAN, KILL TBG W/ 10 BBLS BRINE WTR, SWIVEL DWN 9 JTS 2-7/8" TBG, TAG 7" CBP @ 7199', BEGIN REV CIRC, DRILL OUT 7" CBP @ 7199', CIRC TBG CLEAN, KILL TBG W/ 10 BBLS BRINE WTR, RIG DWN P.S., TOOH W/ 16 JTS 2-7/8" EUE L-80 TBG, EOT @ 6702', CLOSE & LOCK PIPE RAMS, INSTALL & CLOSE TIW VALVE W/ NIGHT CAP, CLOSE & NIGHT CAP CSG VALVES, SDFN

4/9/2016

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON RU POWER SWIVEL, WRITE & REVIEW JSA'S
	7:30 9:30	2.00	WOR	39		P		SICP 175 PSI, SITP 150 PSI, OPEN CSG TO FLOW BACK TANK, PUMP 15 BBLs BRINE WTR DWN TBG, RIH W/ 19 JTS 2-7/8" TBG, TAG CBP @ 7281', LD 1 JT 2-7/8 RU POWER SWIVEL, MU JT W/ SWIVEL
	9:30 12:30	3.00	WOR	10		P		BEGIN REVERSE CIRC, DRILL OUT 7" CBP @ 7281', CIRC TBG CLEAN, PUMP 15 BBLs BRINE DWN TBG, SWIVEL DWN 12 JTS 2-7/8" TBG, BEGIN REVERSE CIRC, FINISH DRILLING OUT REMAINS OF 7" CBP AT LINER TOP, CIRC TBG CLEAN, PUMP 15 BBLs BRINE DWN TBG, RIG DWN POWER SWIVEL
	12:30 14:00	1.50	WOR	39		P		LD 12 JTS 2-7/8" TBG, TOO H & STAND BACK IN DERRICK W/ 50 JTS 2-7/8" TBG, EOT @ 5666', SHUT & LOCK PIPE RAMS, CLOSE & NIGHT CAP CSG VALVES, RU FLOW BACK LINES TO TBG
	14:00 6:00	16.00	FB	19		P		OPEN TBG ON 12/64 600 PSI, CHOKE TO FLOW BACK TANK, TURN WELL OVER TO FLOW BACK CREW, CURRENT PRESSURE 525 PSI ON 20/64 CHOKE FLOWED 478 BBLs WATER BACK
4/10/2016	6:00 6:00	24.00	FB	19		P		HOLD SAFETY MTG ON USING 3 POINT CONTACT ON STAIR WAYS WRITE & REVIEW JSA'S, CURRENT PRESSURE 500 PSI ON 26/62 CHOKE, FLOWED 96 BBLs OIL & 791 BBLs WATER, GAS GOING TO FLARE
4/11/2016	6:00 6:00	24.00	FB	19		P		HOLD SAFETY MTG ON CLEANING CHOKES, WRITE & REVIEW JSA'S, WELL FLOWING ON 26/64 CHOKE @ 500 PSI, FLOWED BACK, 301 BBLs OIL, 887 BBLs WTR, GAS GOING TO FLARE
4/12/2016	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON LD STANDS OUT OF DERRICK, WRITE & REVIEW JSA'S
	7:30 10:30	3.00	WOR	24		P		LD 26 STANDS OUT OF DERRICK, RU TONGS ON FORK LIFT & BREAK STANDS APART
	10:30 14:00	3.50	WOR	18		P		RACK OUT PUMP & TANK, PU LOCATION & WAIT ON FLOW TREE FROM VERNAL
	14:00 15:30	1.50	WOR	18		P		CLOSE IN TIW VALVE, MU FLOW TREE IN TOP OF TIW VALVE, HOOK UP FLOW LINES, RIG DWN RIG & MOVE OFF LOC, TURN WELL BACK OVER TO FLOW BACK CREW
4/22/2016	9:00 11:00	2.00	MIRU	01		P		MOVE RIG TO LOCATION. RU RIG & RUN PUMP LINES.
	11:00 14:30	3.50	WOR	15		P		SICP 1175 PSI. FLOWING TBG PRESSURE 200 PSI. BLEED PRESSURE ON CSG TO 200 PSI. PUMP 235 BBLs 10 PPG BRINE WTR DOWN CSG & 35 BBLs 10 PPG BRINE WTR DOWN TBG TO KILL WELL.
	14:30 18:00	3.50	WOR	39		P		TOOH W/ 174 JTS 2-7/8"EUE TBG, BIT SUB & 6" OD BIT. TIH W/ 4" X 4-1/8" SHOE, TOP BUSHING, 7 JTS 2-3/8"EUE TBG, X-OVER, 2-7/8" SEAT NIPPLE & 174 JTS 2-7/8"EUE TBG. SDFN
4/23/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON BLEEDING PRESSURE OFF WELL. FILL OUT & REVIEW JSA
	7:00 8:30	1.50	WOR	15		P		SICO 1100 PSI. SITP 1000 PSI. BLEED PRESSURE OFF WELL. KILL TBG W/ 20 BBLs 10 PPG BRINE WTR.
	8:30 10:00	1.50	WOR	24		P		PU 54 JTS 2-7/8"EUE TBG. TAG LINER @ 7643'. ROATATE TBG W/ TONGS. UNABLE TO WORK SHOE THROUGH LINER HANGER.
	10:00 12:30	2.50	WOR	18		P		RU POWER SWIVEL ATTEMPTS TO BREAK REVERSE CIRCULATION FAILED. PUMPED 330 BBLs 2% KCL WTR DOWN CSG. PUMP 50 BBLs 25 KCL WTR DOWN TBG. WORK SHOE THROUGH LINER TOP WHILE PUMPING 12 BPM DOWN TBG. CONTINUE IN HOLE TO 7813'. RD POWER SWIVEL
	12:30 13:30	1.00	WOR	24		P		LD 44 jts 2-7/8"EUE TBG.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	13:30 15:00	1.50	WLWORK	18		P		RU WIRELINE UNIT. RIH W/ 1-11/16"OD SINKER BARS & CCL THROUGH SHOE & TAG @ 7828'. POOH & RD WIRELINE UNIT
	15:00 17:30	2.50	WOR	16		P		LAND TBG W/ EOT @ 6430', SN @ 6167', ON REGULAR TBG HANGER W/ BACK PRESSURE INSTALLED IN TBG HANGER. ND BOP & FRAC VALVE. NU WELL HEAD & FLOW LINES. REMOVE BACK PRESSURE VALVE FROM TBG HANGER & INSTALL DOUBLE CHECK VALVE. PRESSURE TEST WELL HEAD & FLOW LINES. TURN WELL OVER TO FLOW BACK CREW
	17:30 6:00	12.50	FB	19		P		MONITOR WELL PRESSURE. WELL STARTED FLOWING @ 4:30 AM. PRESSURE @ REPORT TIME 150 PSI TBG, 475PSI ON CSG
4/29/2016	6:00 7:00	1.00	WLWORK	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON WIRELINE SAFETY. FILL OUT & REVIEW JSA
	7:00 13:30	6.50	WLWORK	22		P		RU WIRELINE UNIT. RIH W/ 1-11/16" SINKER BARS & TAG @ 7815'. POOH. RIH W/ PROTECHNICS PRODUCTION LOGGING TOOL. LOG INTERVAL 6500' TO 7809'. DOWN LOAD DATA. RD WIRELINE UNIT. MOVE OFF LOCATION
6/3/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON WELL CONTROL. FILLED OUT AND REVIEWED JSA.
	7:30 11:00	3.50	WOR	06		P		TUBING FLOWING TO TREATER 60 PSI, CSIP 1500 PSI. BLED DOWN CSG. PUMPED 230 BBLS DOWN TBG NO CIRCULATION. TBG ON VACUUM CSG DEAD, PUMPED 70 BBLS DOWN CSG. TBG AND CSG ON VACUUM. INSTALLED BPV.
	11:00 13:30	2.50	WOR	16		P		CSG BARRIER 1 COLUMN FLUID, BARRIER 2 TBG HANGER, TBG BARRIER 1 COLUMN FLUID, BARRIER 2 BPV. ND WELLHEAD TREE, NU 5K BOP AND HYDRIL, PRESSURE TEST TIW VALVE, BOP AND HYDRIL @ 250 LOW AND 5000 PSI HIGH.
	13:30 16:30	3.00	WOR	39		P		TOOH W/ 190-JTS 2 7/8 L-80 EUE TBG, X-OVER, 7-JTS 2 3/8 L-80 EUE TBG, TOP SUB AND 4 1/8" MILL. FLUSHING AS NEEDED W/ 60 BBLS.
	16:30 18:30	2.00	WOR	39		P		RIH W/ 5 3/4 NO-GO, 2-JTS 2 7/8 L-80 EUE TBG, 5 1/2 PBGA, MECH SN, 40' X 2 1/4" PUMP BARREL, RU HYDRO TESTER, RIH HYDROTESTING @ 8500 PSI W/ 4-JTS 2 7/8 L-80 EUE TBG, KLX, TAC AND 66-JTS 2 7/8 L-80 EU TBG EOT ~2437'. CLOSED IN WELL, CSG BARRIER 1 PIPE RAMS CLOSED AND LOCKED, BARRIER 2 CLOSED HYDRIL, CSG CSG VALVES AND INSTALLED NIGHT CAPS, TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. SDFN.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	8. WELL NAME and NUMBER: Carman 2-36C5
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1603 FNL 1579 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 36 Township: 03.0S Range: 05.0W Meridian: U	9. API NUMBER: 43013530950000
PHONE NUMBER: 713 997-5138 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/27/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Drill Out 1 Plug & Cmt"/>

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

POOH with rods, pumping & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods. Pick up 4 1/8" rock bit, TIH and drill up 15' cement and 5' CBP @ 7,846'. Note: top perf BELOW plug is @ 7,881'. Continue cleaning out well to PBSD @ 10,327'. Pull out of hole with work string and rock bit. RIH with production tubing and rods according to WBD. Clean location and resume production.

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

Date: _____

By: *Derek Duff*

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 10/19/2016	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		8. WELL NAME and NUMBER: Carman 2-36C5
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002		9. API NUMBER: 43013530950000
PHONE NUMBER: 713 997-5138 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1603 FNL 1579 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 36 Township: 03.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/1/2016	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="DO Plugs"/>

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

Repaired tubing. Drilled out CBP @ 7846'. Open Perfs: 6776'-7806'
(April 2016 Recom) & 7881'-10271' (Initial Completion). See attached
for details.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
November 28, 2016**

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5138	TITLE Consultant
SIGNATURE N/A	DATE 11/9/2016	

CENTRAL DIVISION

ALTAMONT FIELD
CARMAN 2-36C5
CARMAN 2-36C5
RECOMPLETE LAND

Operation Summary Report

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

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	14:30 18:30	4.00	INARTLT	39		P		RIH W/ 2 1/4 PLUNGER STAB SUB, ON OFF TOOL, 1350' 16/16 AND 1800' 15/16, CUT OUT 1800' 15/16 WELED ON AND RIH W/ 400' 16/16, MADE WELD, CLOSED IN WELL. CLOSED BOP ON CO-ROD. LEFT CSG AND TBG OPEN TO TREATER. SDFN.
6/5/2016	6:00 7:00	1.00	INARTLT	28		P		CT HOLD SAFETY MTG ON RIH W/ COROD WRITE & REVIEW JSA'S
	7:00 11:00	4.00	INARTLT	03		P		0 PSI ON TBG, CONT RIH W/ 1891' # 5, 933' # 6, 608' # 8, CUT & LD 608' # 8 COROD, WELD ON # 7 COROD & RIH W/ 2783', WELD ON 1" PIN, SPACE WELL OUT W/ 8', 6', 4', 2', X 1" PONY RODS & NEW 1-1/2" X 40' POLISH ROD
	11:00 12:00	1.00	INARTLT	18		P		STROKE TEST PUMP TO 1000 PSI GOOD TEST, RIG DWN COROD RIG, SLIDE IN P.U. HANG OFF RODS TWOTP
10/28/2016	10:00 12:00	2.00	WOR	39		P		HOT OILER PUMP 65 BBLS HOT 2% CSG MIRU WEATHERFORD CO - ROD RIG P/U ON POLISH ROD SOMTHING POP LOOSE L/D 8' 6' 4' 2' X 1" PONY TRY FLUSH NO LUCK!
	12:00 14:00	2.00	WOR	39		P		TOOH W/ 2,783' #7, 933' #6, 1,891' #5, 1,750 #6 1 1/2" X 40' POLISH ROD, 2 1/4" X 5' PLUNGER PUMP (BOTTOM "T" RET TOOL BROKE!)
	14:00 16:30	2.50	WLWORK	21		P		MIRU THE PERFORATORS RIH TBG PERF @ 7,430' TOOH R/D TRUCK
	16:30		WOR	18		P		INSTALL 2 7/8" BULL PLUG TOP RADIGIN RDMO WEATHERFORD CO - ROD UNIT
10/29/2016	6:00 7:30	1.50	WOR	28		P		HELD SAFETY MEETING MIRU
	7:30 8:30	1.00	WOR	18		P		MIRU PEAK #2100
	8:30 11:30	3.00	WOR	16		P		FLUSH TBG W/ 40 BBLS 2% KCL N/D RADIGIN, FLOW "T", RADIGIN, P/U ON 10M "B" FLANGE, INSTALL 7 7/16" HANGER TIW VAVLE TOP TBG, N/U SPOOL, 5K BOP, 5K HYDRILL HIGH 5200 , LOW 250, ANNULAR HIGH 2600, 400 LOW
	11:30 16:30	5.00	WOR	39		P		RELEASE 7" TAC R/U SCAN UNIT TOOH W/ 223 JT 2 7/8" N-80 7" KLX TAC, 4 JT 2 7/8" TBG , 4' PUP , 2 7/8" PUMP BARREL, MECH SN, 2' PUP, 4' PUP, 5 1/2" PBGA, 2 JT 2 7/8" TBG, 5 3/4" NO/GO (204 YELLOW, 22 BLUE)
	16:30 18:00	1.50	WOR	39		P		M/U 4 1/8" BIT, BIT SUB, 2 3/8" FLAPPER, 4' X 2 3/8" PUP JT, 2 3/8" FLAPPER, 20 JT 2 3/8" N-80 TBG, 2 3/8" SAFETY SUB, 2 3/8" BAILER ASSEMBLY , 4' X 2 3/8" PERF SUB , TIH W/ 67 JT 2 3/8" N-80 TBG, X/O, 151 JT 2 7/8" EOT @ 5,398'
	18:00 18:30	0.50	WOR	18		P		CLOSE LOCK PIPE RAMS SEND CSG UP SALE LINE OTHER SIDE SHUT W/ NIGHT CAP INSTALL 2 7/8" TIW VAVLE W/ NIGHT CAP SDFN
10/30/2016	6:00 7:30	1.50	WOR	28		P		TGSM & JSA (POWER SWIVEL OPERATIONS)
	7:30 13:30	6.00	WOR	39		P		BWD, RIH W/ 75 JTS 2 7/8" TAG UP @ 7820' RU POWER SWIVEL, START PUMPING DOWN CASING. DRILL & BAIL UP CEMENT AND CBP. RIG DOWN SWIVEL, CIH W/ TAG @ 10,316' W/ JT# 230 , RU SWIVEL TO CLEAN OUT TO PBTD, VERY STICKY (BOTTOM PERF @ 10,271') RD SWIVEL.
	13:30 19:30	6.00	WOR	39		P		LAY DOWN 6 JTS, COOH W/ 234 JTS, X/O TO 2 3/8", LAY DOWN 67 JTS 2 3/8", SAFETY, BAILER, 20 JTS 2 3/8", CHECK, PUP, CHECK, BIT SUB, 4 1/8" BIT. RIH W/ 5 3/4"NO-GO, 6' PERFORATED PUP JT, 40 JTS FOR KILL STRING. EOT @ 1303' SHUT AND LOCK PIPE RAMS, SHUT HYDRILL, SHUT CASING VALVE, INSTALL NIGHT CAP. LEAVE TO SALES. INSTALL, CLOSE TIW VALVE, W/ NIGHT CAP. SHUT DOWN FOR WEEK END.
10/31/2016	6:00 6:00	24.00	WOR	28		P	NO ACTIVITY SHUT DOWN FOR WEEK END	
11/1/2016	7:00 8:30	1.50	WOR	28		P		CT TGSM & JSA (HYDRO TESTING)
	8:30 10:00	1.50	WOR	39		P		POOH W/ 40 JTS, L/D PERF SUB, PLUG TEST 4 JTS 3 1/2" & 1 JT 2 7/8" W/ TAC ON GROUND.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	10:00 13:30	3.50	WOR	39		P		MU & RIH W/ 5 3/4" NO-GO, 2 JTS 2 7/8", 5 1/2" PBGA, 4' 2 7/8" SUB, 2' 2 7/8" SUB, MECHANICAL S/N, 40' PUMP BBL, 4' 2 7/8" SUB, 2 7/8" 8RD, X 3 1/2" 8RD C/O, 4 JTS 3 1/2", 3 1/2" 8RD X 2 7/8" 8RD C/O, 7" TAC, 3 JTS 2 7/8" (BOTTOM 1 TESTED) RU AND CONTINUE HYDRO TESTING (TTL 223 JTS 2 7/8" ABOVE TAC.) RIG DOWN TESTER.
	13:30 15:30	2.00	RDMO	02		P		SET TAC AND TEMPORARY LAND TUBING, RD WORK FLOOR. ND BOP & HYDRILL. RE LAND TUBING W/ 25K TENSION. RDMOL TO 4-10C5, SLIDE UNIT MIRU.
11/2/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (CO ROD OPERATIONS)
	7:30 8:30	1.00	WOR	06		P		FLUSH TUBING W/ 60 BBLS DROP S/V PUMP 10 GAL CORROSION INHIBITOR W/ 50 BBLS FLUID.
	8:30 12:00	3.50	WOR	39		P		RIH W/ 2 1/4" PLUNGER, 40' P-ROD, STAB SUB, BROWNING TMX 120 ON/OFF TOOL, STAB SUB, 1,750 #6, 1,891 #5, 933 #6, 2783 #7. SPACE OUT W/ 8,6,2, X 1" PONIES & 1 1/2" X 40' P ROD. FILL TUBING W/ 15 BBLS, L/S TO 1000 PSI. RD SLIDE UNIT, NO TAG TOT PRODUCTION.