

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 Fairclough 4-20C4							
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT							
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME							
6. NAME OF OPERATOR EP ENERGY E&P COMPANY, L.P.						7. OPERATOR PHONE 713 997-5038							
8. ADDRESS OF OPERATOR 1001 Louisiana, Houston, TX, 77002						9. OPERATOR E-MAIL maria.gomez@epenergy.com							
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>							
13. NAME OF SURFACE OWNER (if box 12 = 'fee') David E. and Jo Fairclough						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-830-2709							
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 506 North 100 West, Tooele, UT 84074						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		1638 FNL 1606 FWL		SEnw		20		3.0 S		4.0 W		U	
Top of Uppermost Producing Zone		1638 FNL 1606 FWL		SEnw		20		3.0 S		4.0 W		U	
At Total Depth		1638 FNL 1606 FWL		SEnw		20		3.0 S		4.0 W		U	
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1606			23. NUMBER OF ACRES IN DRILLING UNIT 640							
27. ELEVATION - GROUND LEVEL 5862			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2200			26. PROPOSED DEPTH MD: 12000 TVD: 12000							
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			
COND	17.5	13.375	0 - 600	54.5	J-55 ST&C	8.8	Class G	758	1.15	15.8			
SURF	12.25	9.625	0 - 1700	40.0	N-80 LT&C	9.4	Type V	173	3.16	11.0			
							Class G	195	1.3	14.3			
I1	8.75	7	0 - 9000	29.0	HCP-110 LT&C	10.6	Class G	352	2.31	12.0			
							Class G	256	1.65	13.0			
L1	6.125	5	8800 - 12000	18.0	HCP-110 LT&C	13.2	Class G	190	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 02/11/2014				EMAIL maria.gomez@epenergy.com					
API NUMBER ASSIGNED 43013528510000				APPROVAL  Permit Manager									

**Fairclough 4-20C4
Sec. 20, T3S, R4W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,979' TVD
Green River (GRTN1)	4,659' TVD
Mahogany Bench	5,529' TVD
L. Green River	6,839' TVD
Wasatch	8,719' TVD
T.D. (Permit)	12,000' TVD

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	3,979' MD / TVD
	Green River (GRTN1)	4,659' MD / TVD
	Mahogany Bench	5,529' MD / TVD
Oil	L. Green River	6,839' MD / TVD
Oil	Wasatch	8,719' MD / TVD

3. Pressure Control Equipment: (Schematic Attached)

A 4.5" by 20.0" rotating head on structural pipe from surface to 600' MD/TVD. A 4.5" by 13-3/8" Smith Rotating Head (Diverter Stack) from 600' MD/TVD to 2,000' MD/TVD on Conductor. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 2,000' MD/TVD to 9,000' MD/TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 9,000' MD/TVD to TD (12,000' 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 # 404 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Pason Gas Monitoring 600' - TD
- B) Mud logger with gas monitor – 2,000' to TD (12,000' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

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

Please refer to the attached Wellbore Diagram.

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

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

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

5. **Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	8.8 – 9.4
Intermediate	WBM	9.4 – 10.6
Production	WBM	10.6 – 13.2

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 (12,000' 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 12,000' TVD equals approximately 8,237 psi. This is calculated based on a 0.6864 psi/ft gradient (13.2 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 5,597 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

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

BOPE and casing design will be based on the lesser of the two MASPs which is 5,597 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
CONDUCTOR	13 3/8"	0	600	54.5	J-55	STC	2,740	1,130	514
SURFACE	9-5/8"	0	2000	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	9000	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	8800	12000	18.00	HCP-110	STL	13,940	15,450	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		600	Class G + 3% CACL2	758	100%	15.8 ppg	1.15
SURFACE	Lead	1,500	EXTENDACEM SYSTEM: Type V Cement + 5 lbm/sk Silicalite Compacted + 0.25 lbm/sk Kwik Seal + 0.125 lbm/sk Poly-E-Flake + 2% Bentonite	225	75%	11.0 ppg	3.16
	Tail	500	HALCEM SYSTEM: Glass 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 + 0.5% HR-5	195	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	4,850	EXTENDACEM SYSTEM: Class G Cement + 10% Bentonite + 0.1% SA-1015 + 0.2% Econolite + 0.2% Halad-322 + 3 lbm/sk Silicalite Compacted + 1 lbm/sk Granulite TR 1/4 + 0.125 lbm/sk Poly-E-Flake + 5 lbm/sk Kol-Seal + 0.8% HR-5	346	10%	12.0 ppg	2.31
	Tail	2,650	BONDCEM SYSTEM: Class G Cement + 4% Bentonite + 0.25 Poly-E-Flake + 0.1% Halad-413 + 5 lb/sk Silicalite Compacted + 0.15% SA-1015 + 0.5% HR-5	271	10%	13.0 ppg	1.65
PRODUCTION LINER		3,200	EXTENDACEM SYSTEM: Class G Cement + 0.3% Super CBL + 0.6% SCR-100 + 0.3% Halad-413 + 0.125 lbm/sk Poly-E-Flake + 3 lbm/sk Silicalite Compacted + 20% SSA-1 + 0.1% SA-1015	190	25%	14.20	1.47

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at 6,800'.
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.
FAIRCLOUGH 4-20C4
SECTION 20, T3S, R4W, U.S.B.&M.

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

TURN RIGHT AND TRAVEL EASTERLY ON A COUNTY B ROAD 1.32 MILES TO THE BEGINNING OF THE ACCESS ROAD;

TURN RIGHT AND FOLLOWING ROAD FLAGS SOUTHERLY 0.33 MILES TO THE PROPOSED LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 5.19 MILES.

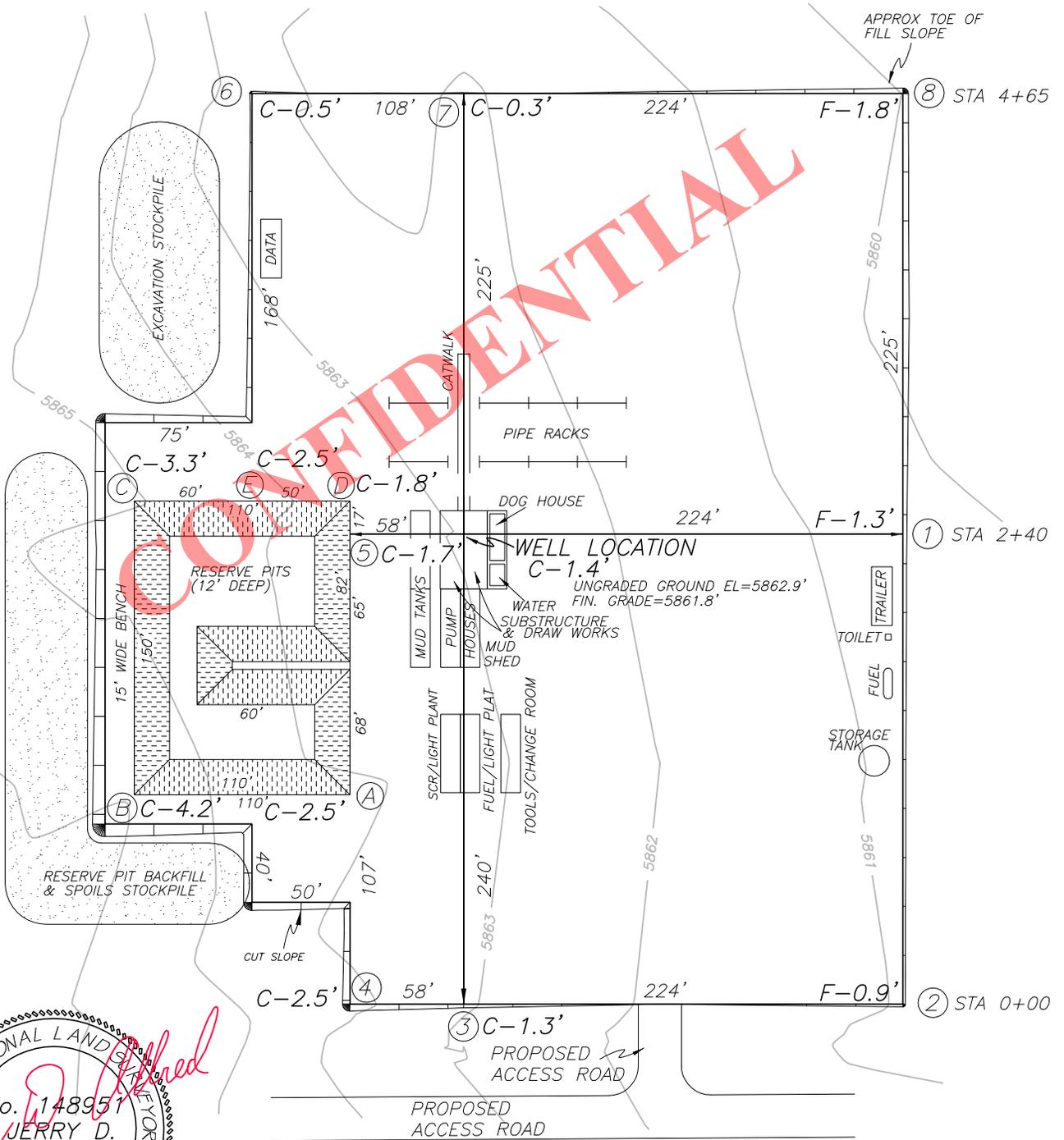
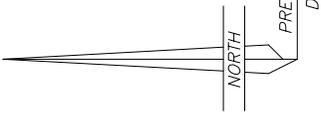
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FIGURE #1

LOCATION LAYOUT FOR
FAIRCLOUGH 4-20C4
SECTION 20, T3S, R4W, U.S.B.&M.
1638' FNL, 1606' FWL

SCALE: 1"=80'
0 80

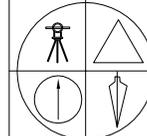


Jerry D. Allred

PROFESSIONAL LAND SURVEYOR
No. 148951
JERRY D. ALLRED
19 DEC '13
STATE OF UTAH

REV 19 DEC 2013
2 DEC 2013
01-128-468

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS
1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
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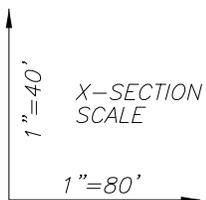
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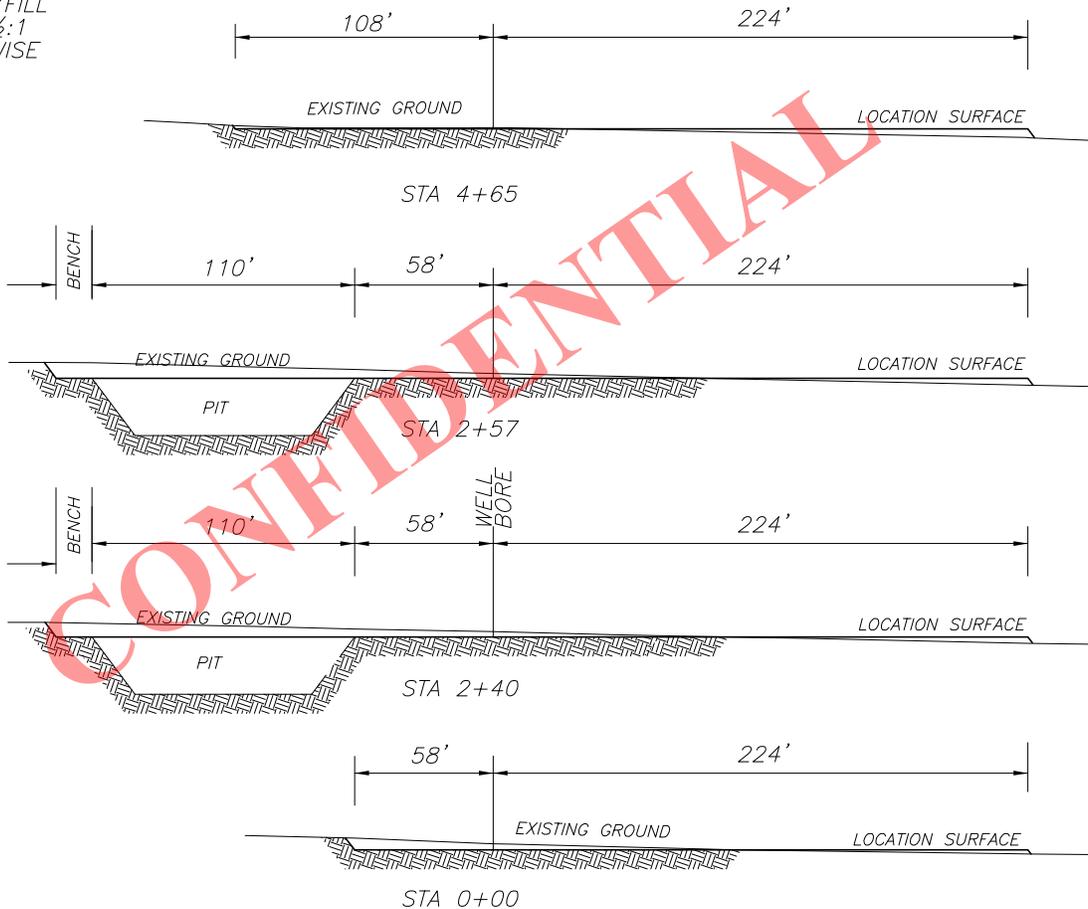
FIGURE #2

LOCATION LAYOUT FOR
FAIRCLOUGH 4-20C4

SECTION 20, T3S, R4W, U.S.B.&M.
1638' FNL, 1606' FWL



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



APPROXIMATE YARDAGES

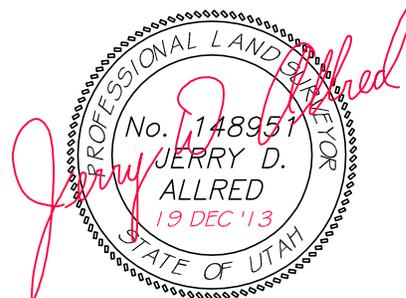
TOTAL CUT (INCLUDING PIT) = 11,166 CU. YDS.

PIT CUT = 4955 CU. YDS.
TOPSOIL STRIPPING: (6") = 3174 CU. YDS.
REMAINING LOCATION CUT = 3037 CU. YDS

TOTAL FILL = 2892 CU. YDS.

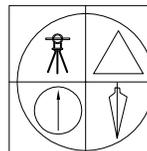
LOCATION SURFACE GRAVEL=2043 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=15 CU. YDS.



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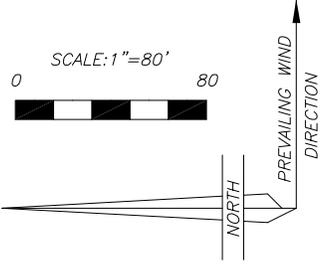
EP ENERGY E&P COMPANY, L.P.

FIGURE #3

LOCATION LAYOUT FOR
FAIRCLOUGH 4-20C4

SECTION 20, T3S, R4W, U.S.B.&M.
1638' FNL, 1606' FWL

SCALE: 1"=80'

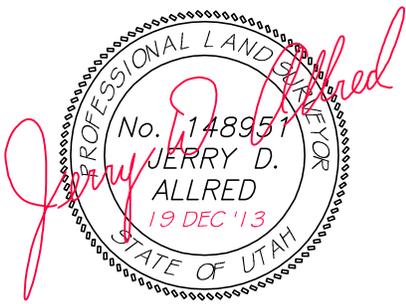
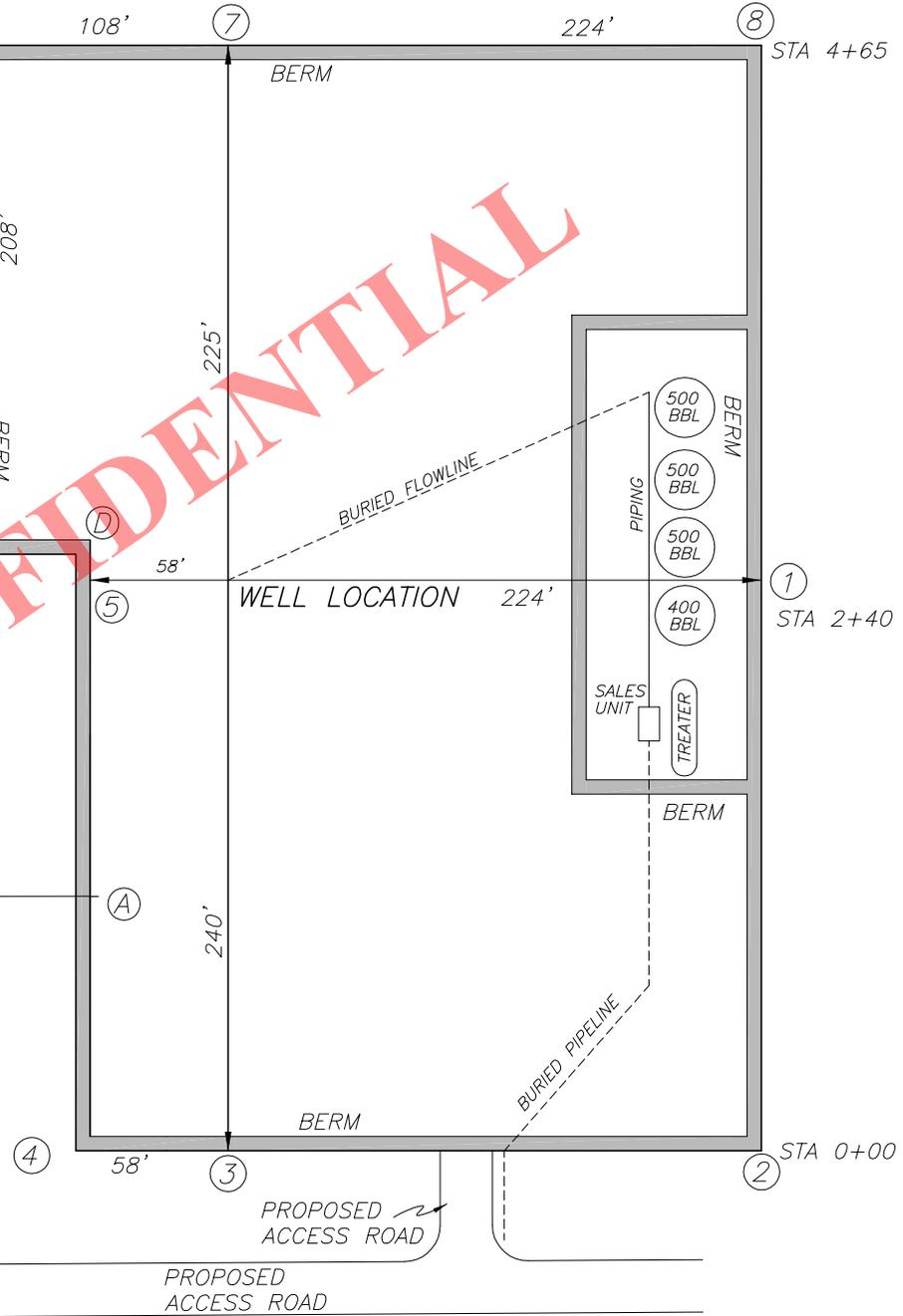
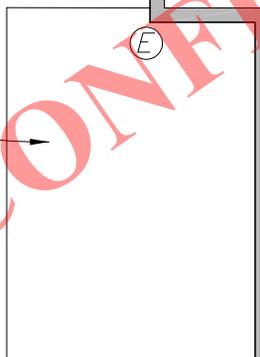


WELL PAD AREA
BERMED AND USED
FOR PRODUCTION

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

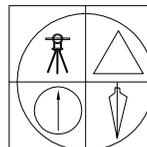
PIT AREA REGRADED
BACK TO SLOPE FOR
INTERIM RECLAMATION

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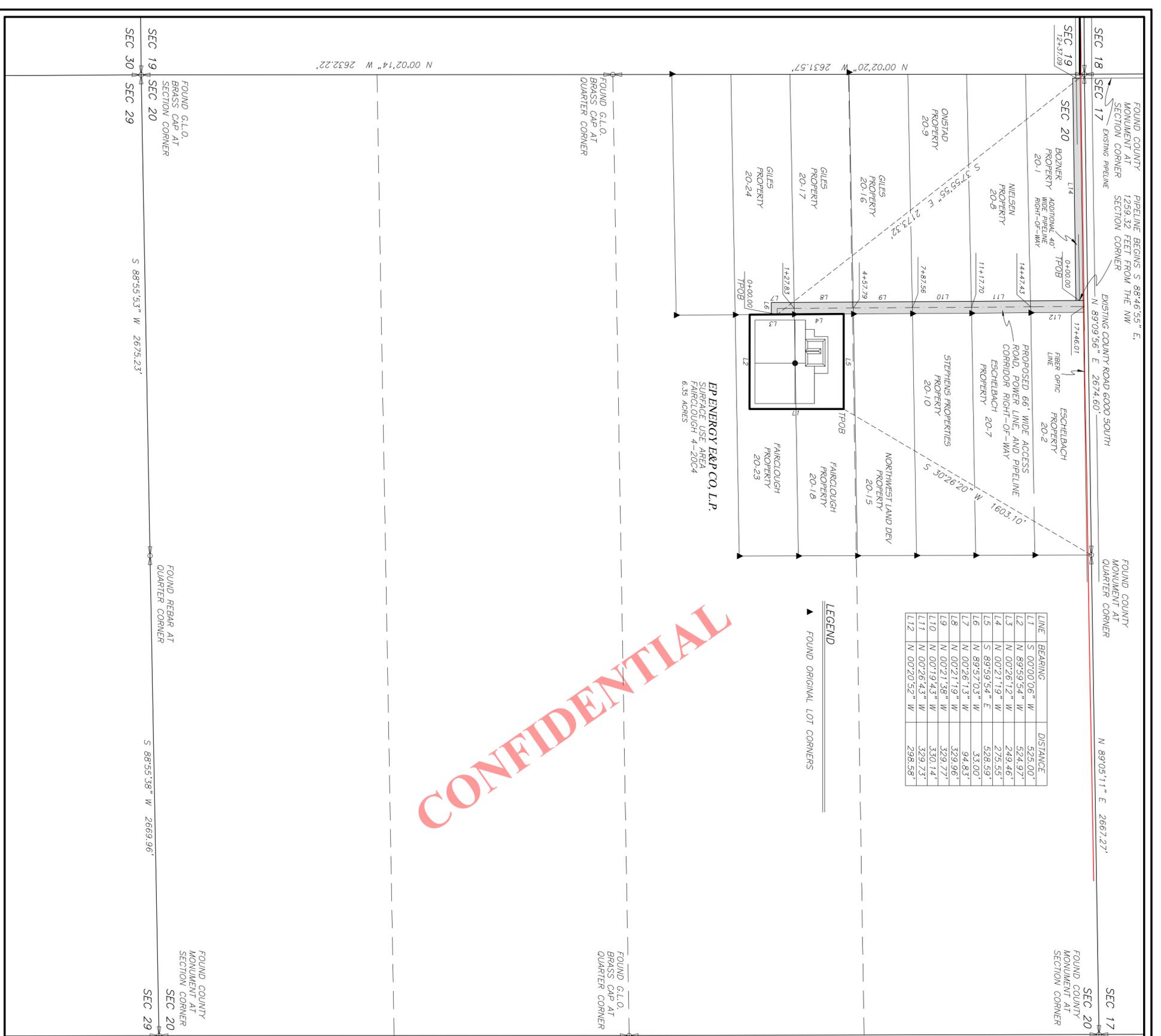
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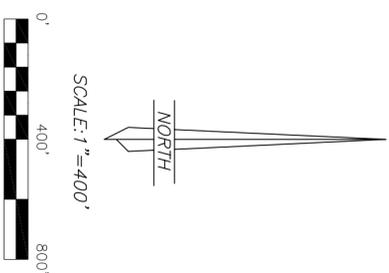


LINE	BEARING	DISTANCE
L1	S 00°00'06" W	525.00'
L2	N 89°59'54" W	524.97'
L3	N 00°26'12" W	249.46'
L4	N 00°21'19" W	275.55'
L5	S 89°59'54" E	528.59'
L6	N 89°57'03" W	33.00'
L7	N 00°26'13" W	94.83'
L8	N 00°21'19" W	329.96'
L9	N 00°21'38" W	329.77'
L10	N 00°19'43" W	330.14'
L11	N 00°26'43" W	329.73'
L12	N 00°20'52" W	296.58'

LEGEND
 ▲ FOUND ORIGINAL LOT CORNERS

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LOCATION USE AREA AND ACCESS ROAD, POWER LINE, AND PIPELINE
 CORRIDOR RIGHT-OF-WAY SURVEY FOR
EP ENERGY E&P COMPANY, L.P.
 SECTION 20, T35, R4W, U.S.B.&M.
 DUCHESNNE COUNTY, UTAH



USE AREA BOUNDARY DESCRIPTION

Commencing at the North Quarter Corner of Section 20, Township 3 South, Range 4 West of the Utah Special Base and Meridian, Thence South 37°57'59" East 469 feet to the TRUE POINT OF BEGINNING; Thence South 00°00'20" East 525.00 feet; Thence South 89°59'54" West 518.50 feet; Thence North 00°21'19" West 249.58 feet; Thence North 00°21'38" West 275.45 feet; Thence North 89°59'54" East 521.72 feet to the TRUE POINT OF BEGINNING, containing 6.35 acres.

ACCESS ROAD, POWER LINE, AND PIPELINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 66 feet wide access road, power line, and pipeline corridor right-of-way over portions of Section 20, Township 3 South, Range 4 West of the Utah Special Base and Meridian, the centerline of said right-of-way being further described as follows:

Commencing at the Northwest Corner of said Section 20, Thence South 37°55'55" East 2173.32 feet to the TRUE POINT OF BEGINNING, said point being on the West line of the Ep Energy E&P Co. Fairclough 4-20C4 well location use area boundary; Thence North 89°57'03" West 33.00 feet; Thence North 00°26'13" West 94.83 feet; Thence North 00°21'38" West 329.96 feet; Thence North 00°21'19" West 329.77 feet; Thence North 00°19'43" West 330.14 feet; Thence North 00°26'43" West 329.73 feet; Thence North 00°20'52" West 296.58 feet to the South side of an existing County Road. Said right-of-way being 1746.01 feet in length, with the side lines being shortened or elongated to intersect said use area boundary and existing road line.

ADDITIONAL PIPELINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 40 feet wide pipeline corridor right-of-way over portions of Section 20, Township 3 South, Range 4 West of the Utah Special Base and Meridian, the centerline of said right-of-way being further described as follows:

Commencing at the Northwest Corner of said Section 20, Thence South 88°46'55" East 1259.32 feet to the TRUE POINT OF BEGINNING; Thence South 89°10'06" West 1237.09 feet to an existing pipeline. Said right-of-way being 1237.09 feet in length, with the side lines being shortened or elongated to intersect existing pipeline rights-of-way.

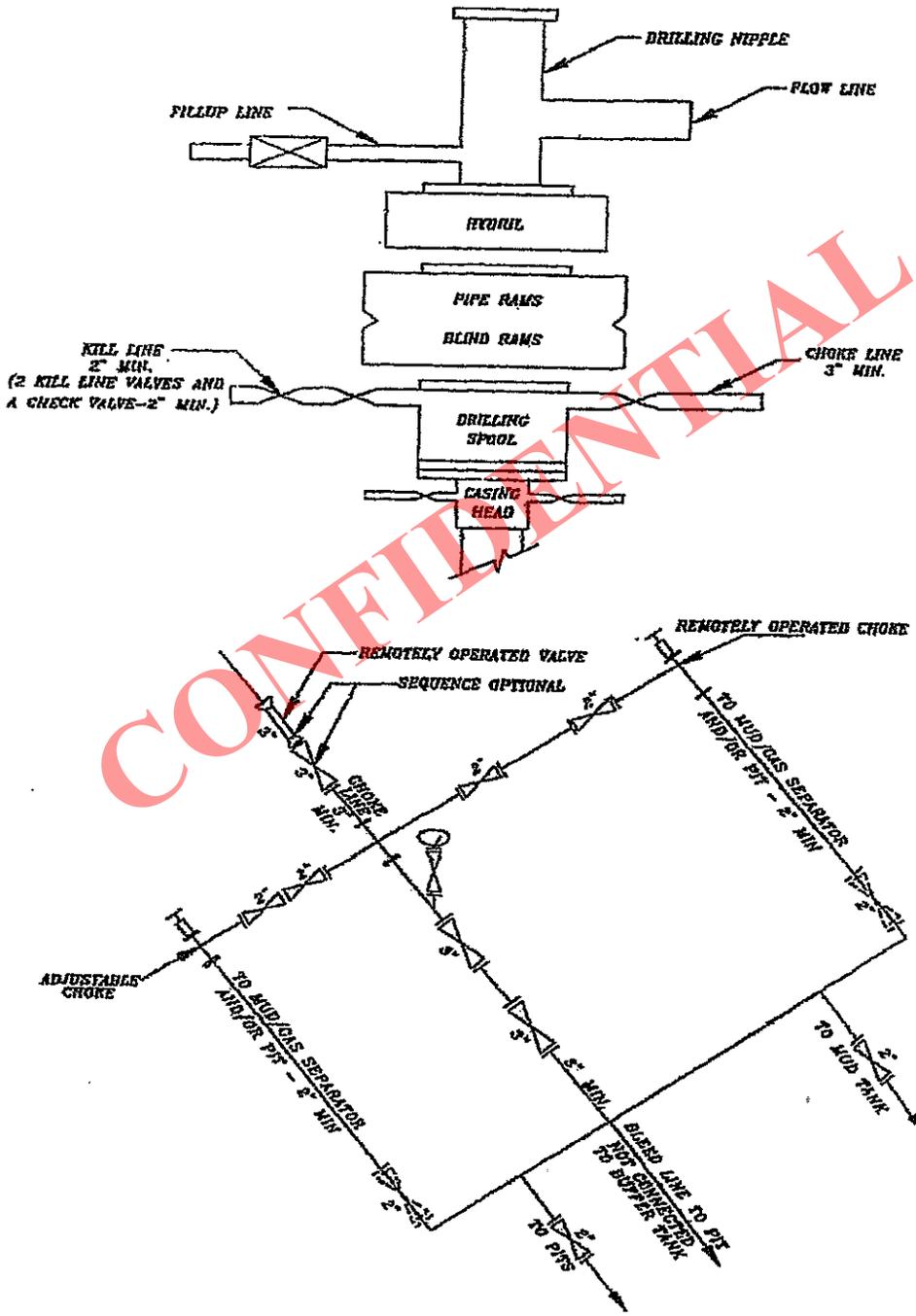


JERRY D. ALLED, REGISTERED LAND SURVEYOR,
 CERTIFICATE NO. 148951 (UTAH)

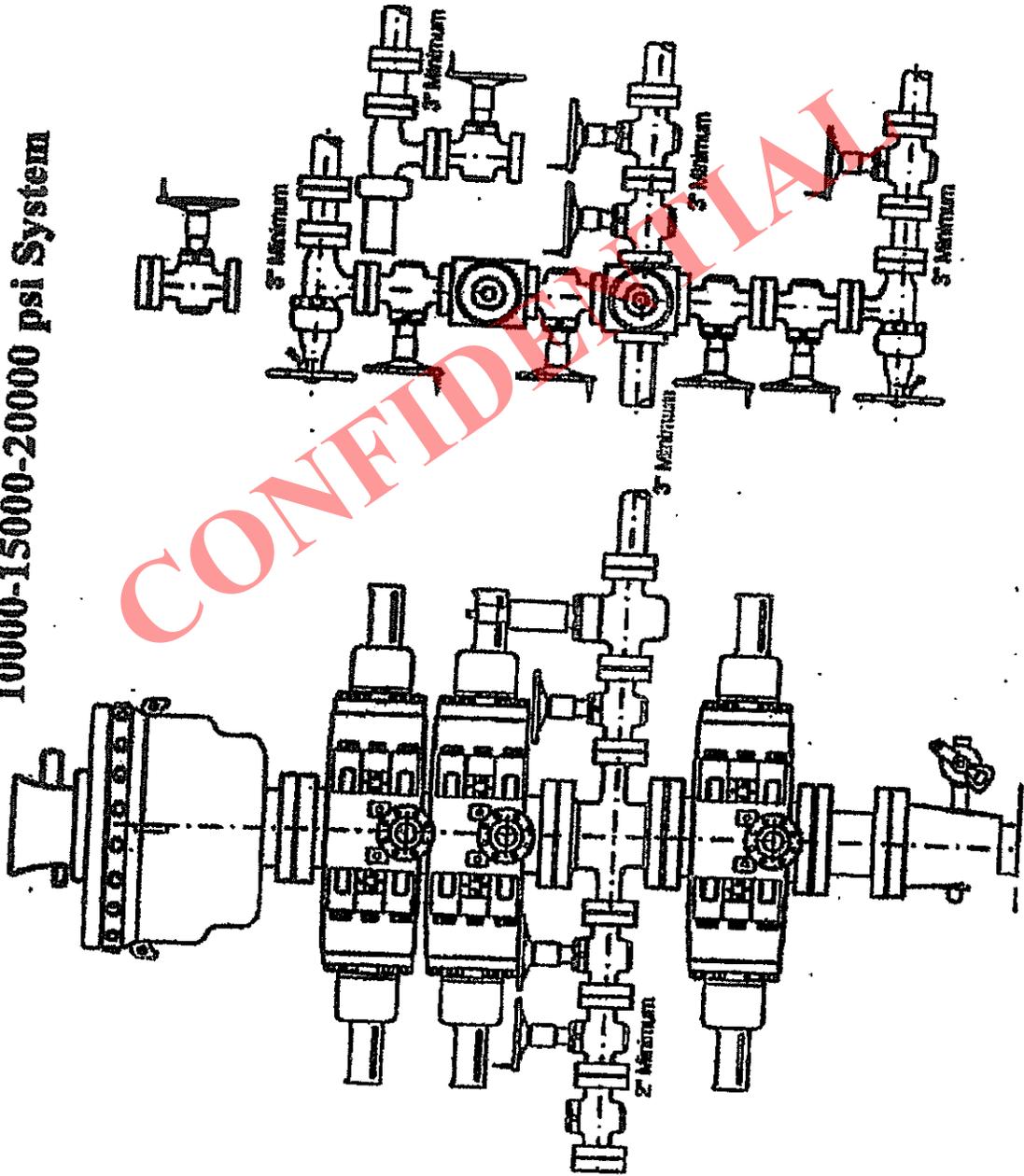
COUNTY SURVEYOR FILE NO.
JERRY D. ALLED & ASSOCIATES
 SURVEYING CONSULTANTS
 1235 NORTH 700 EAST—P.O. BOX 975
 DUCHESNNE, UTAH 84021
 (435) 738-5352

REV 19 DEC 2013
 2 DEC 2013

5M BOP STACK and CHOKE MANIFOLD SYSTEM



10000-15000-20000 psi System

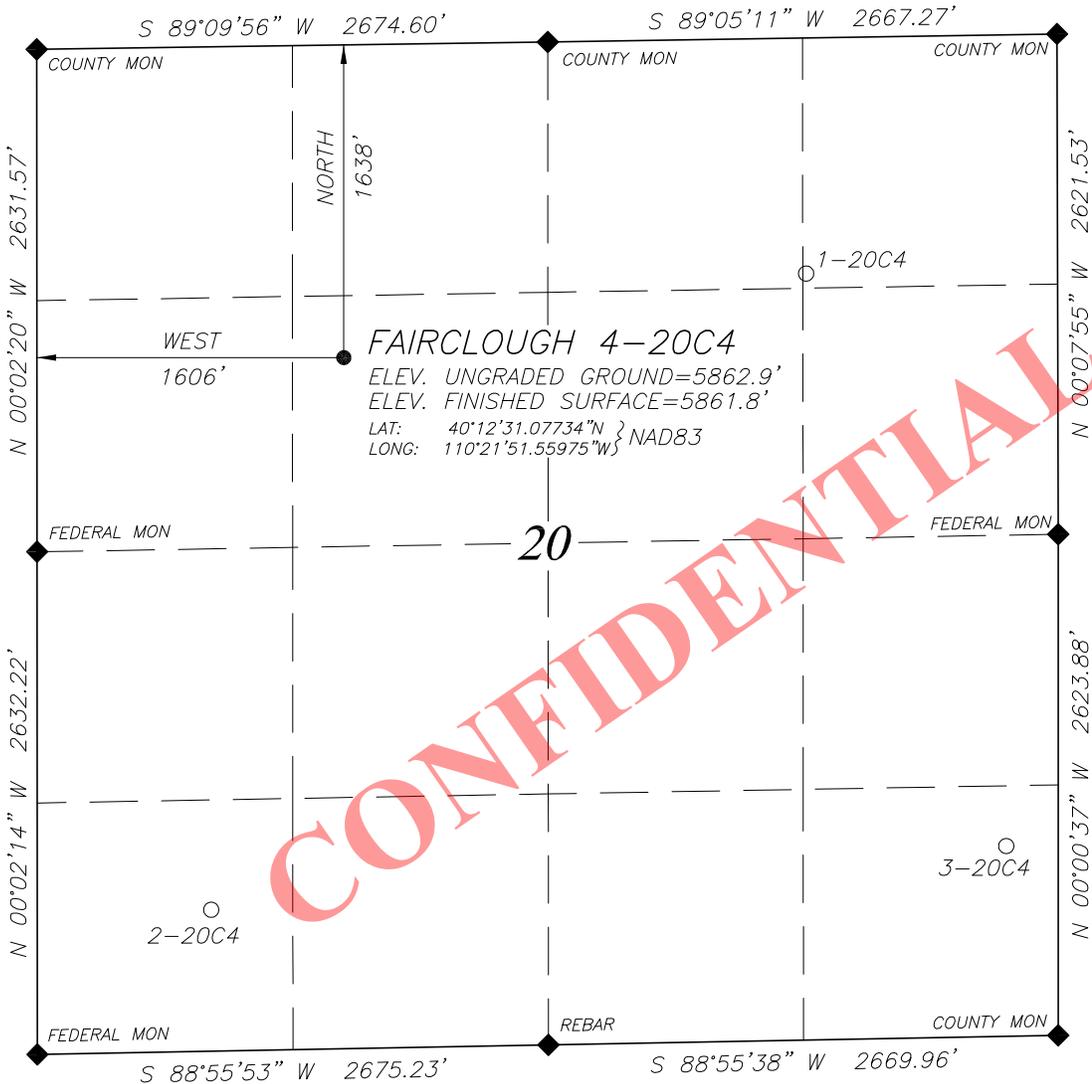


EP ENERGY E&P COMPANY, L.P.

WELL LOCATION

FAIRCLOUGH 4-20C4

LOCATED IN THE NE¼ OF THE NW¼ OF SECTION 20, T3S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH



CONFIDENTIAL

LEGEND AND NOTES

- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY
- THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP
- THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
- THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A SECTION CORNER LOCATED AT LAT. 40°15'22.90258"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER
- BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

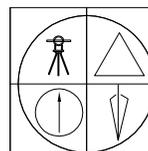
SURVEYOR'S CERTIFICATE

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)

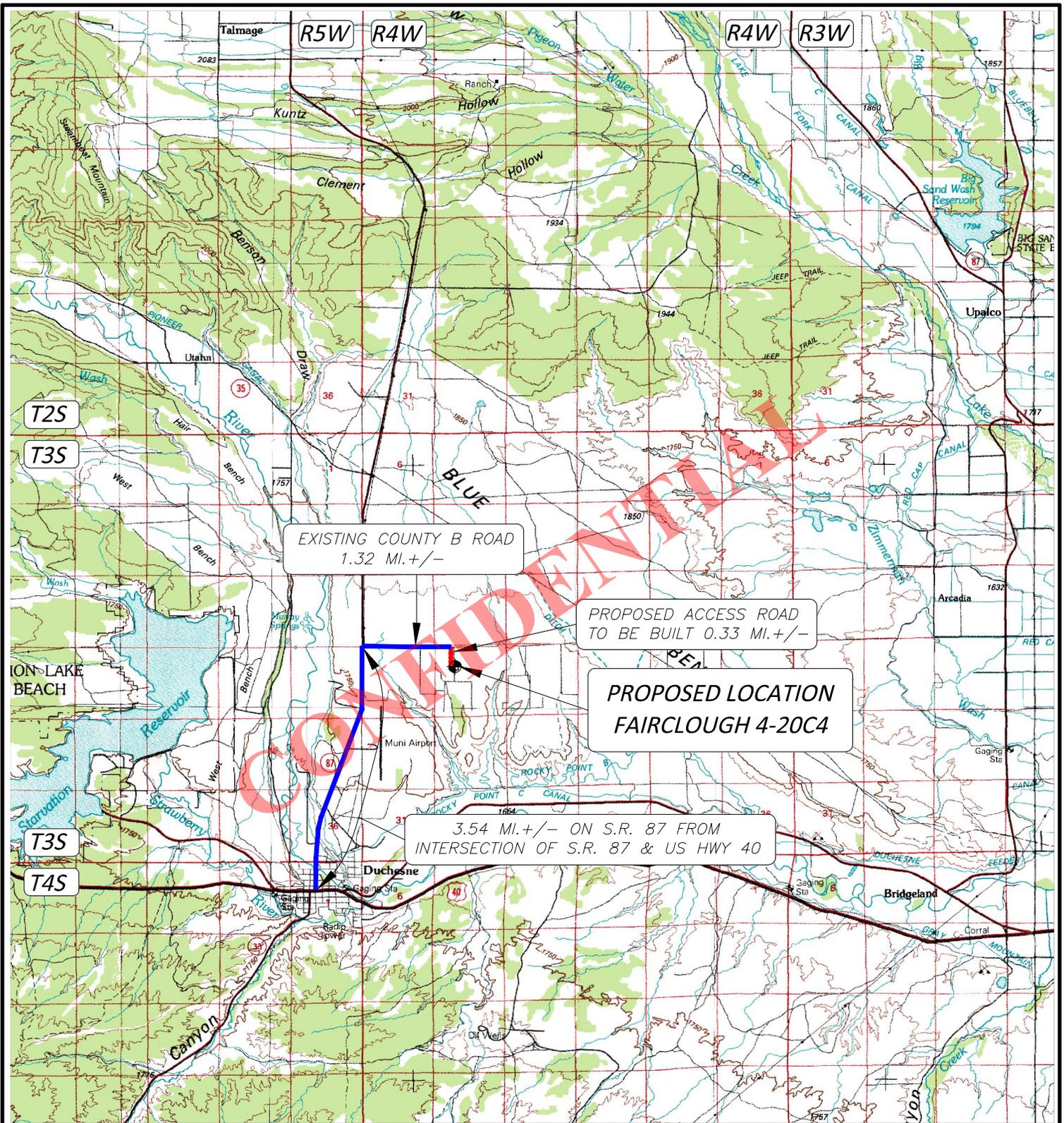
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 (435) 738-5352

RECEIVED: February 11, 2014



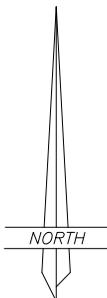
LEGEND:

● PROPOSED WELL LOCATION

01-128-468

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.

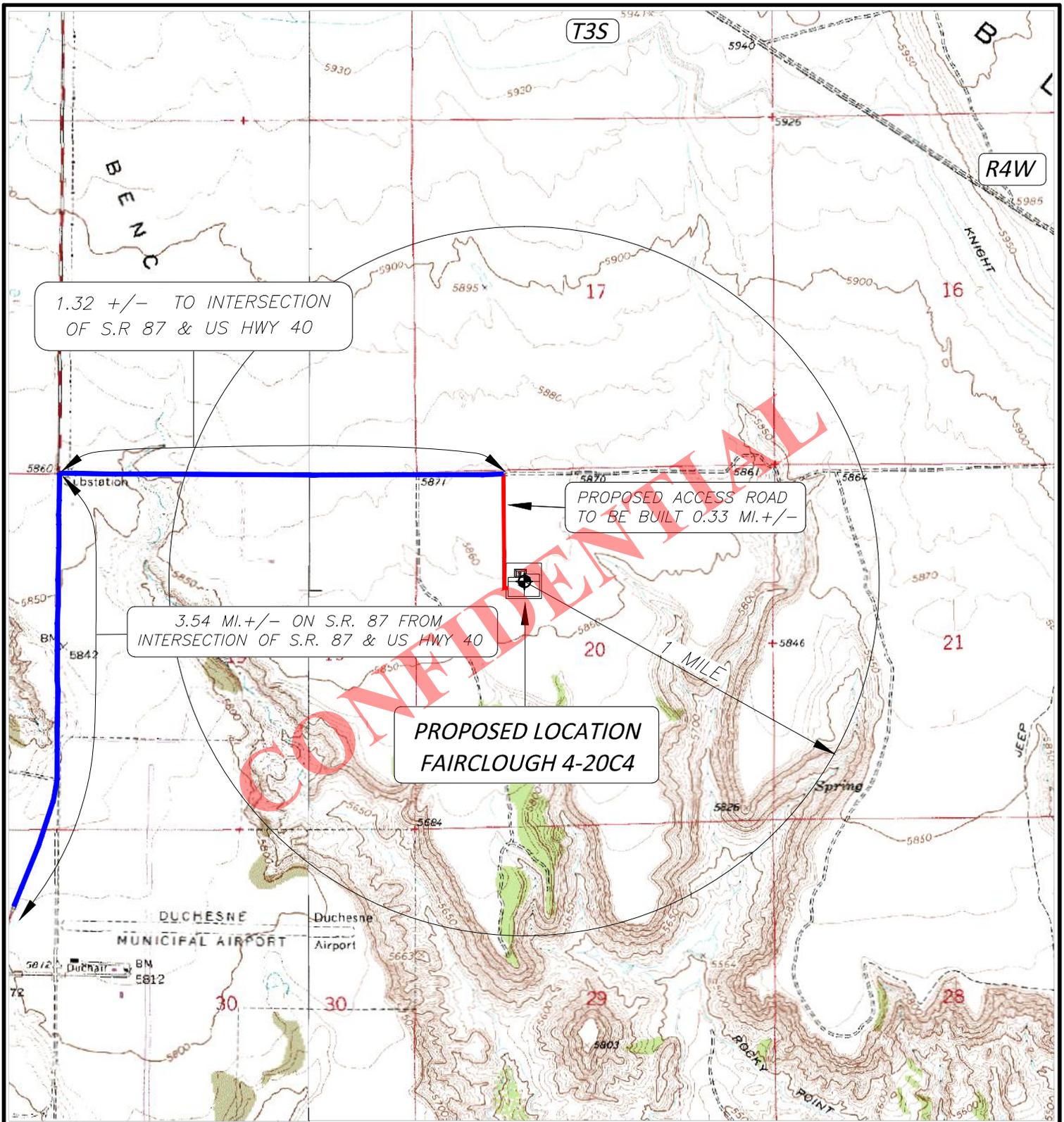
FAIRCLOUGH 4-20C4

SECTION 20, T3S, R4W, U.S.B.&M.

1638' FNL 1606' FWL

TOPOGRAPHIC MAP "A"

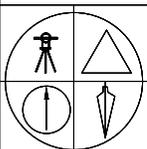
SCALE: 1"=10,000'
19 DEC 2013



LEGEND:

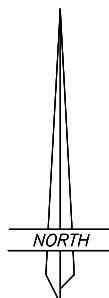
-  PROPOSED WELL LOCATION
-  PROPOSED ACCESS ROAD
-  EXISTING GRAVEL ROAD
-  EXISTING PAVED ROAD

01-128-468



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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

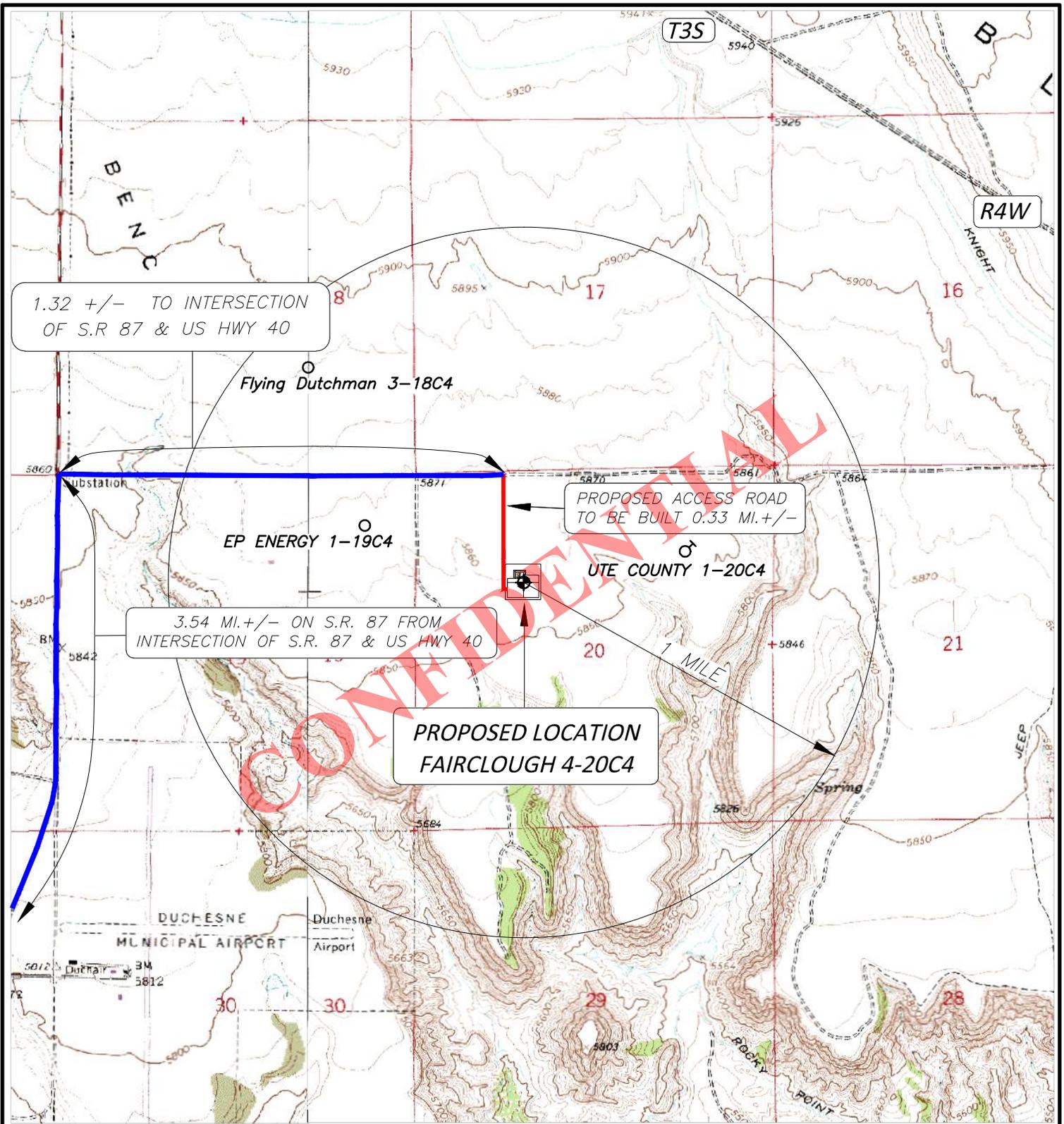


EP ENERGY E&P COMPANY, L.P.

FAIRCLOUGH 4-20C4
SECTION 20, T3S, R4W, U.S.B.&M.
1638' FNL 1606' FWL

TOPOGRAPHIC MAP "B"

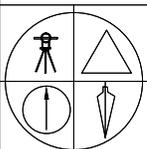
SCALE; 1"=2000'
19 DEC 2013



LEGEND:

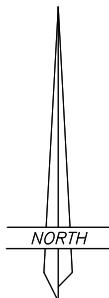
- ◆ PROPOSED WELL LOCATION
- ● + ◆ ○ ◆ ● ♂

01-128-468



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.

FAIRCLOUGH 4-20C4
SECTION 20, T3S, R4W, U.S.B.&M.
1638' FNL 1606' FWL

TOPOGRAPHIC MAP "C"

SCALE; 1"=2000'
19 DEC 2013

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE

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

1. My name is Corie A. Mathews. I am a Senior Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana Street, Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Fairclough 4-20C4 well ("the Well") to be located in the SE/4 of the NW/4 of Section 20, Township 3 South, Range 4 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owners of the Drillsite location are David E. Fairclough and Jo Fairclough, husband and wife, an Utah Joint Tenancy, whose address is 506 North 100 West, Tooele, UT 84074 and whose telephone number is (435) 830-2709 (the "Surface Owner").
3. EP Energy and the Surface Owner have entered into a Damage Settlement and Release Agreement dated December 30, 2013 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, completing and producing of the Well.

FURTHER AFFIANT SAYETH NOT.

Corie A. Mathews

ACKNOWLEDGMENT

STATE OF TEXAS §
 §
 COUNTY OF HARRIS §

This instrument was acknowledged before me on this the 31st day of January, 2014 by Corie A. Mathews as a Senior Landman for EP ENERGY E&P COMPANY, L.P., a Delaware limited partnership, on behalf of said partnership and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.



Notary Public in and for State of Texas

CONFIDENTIAL

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 .33 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 .33 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:

David E. and Jo Fairclough
506 North 100 West
Tooele, Utah 84074
435-830-2709

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:

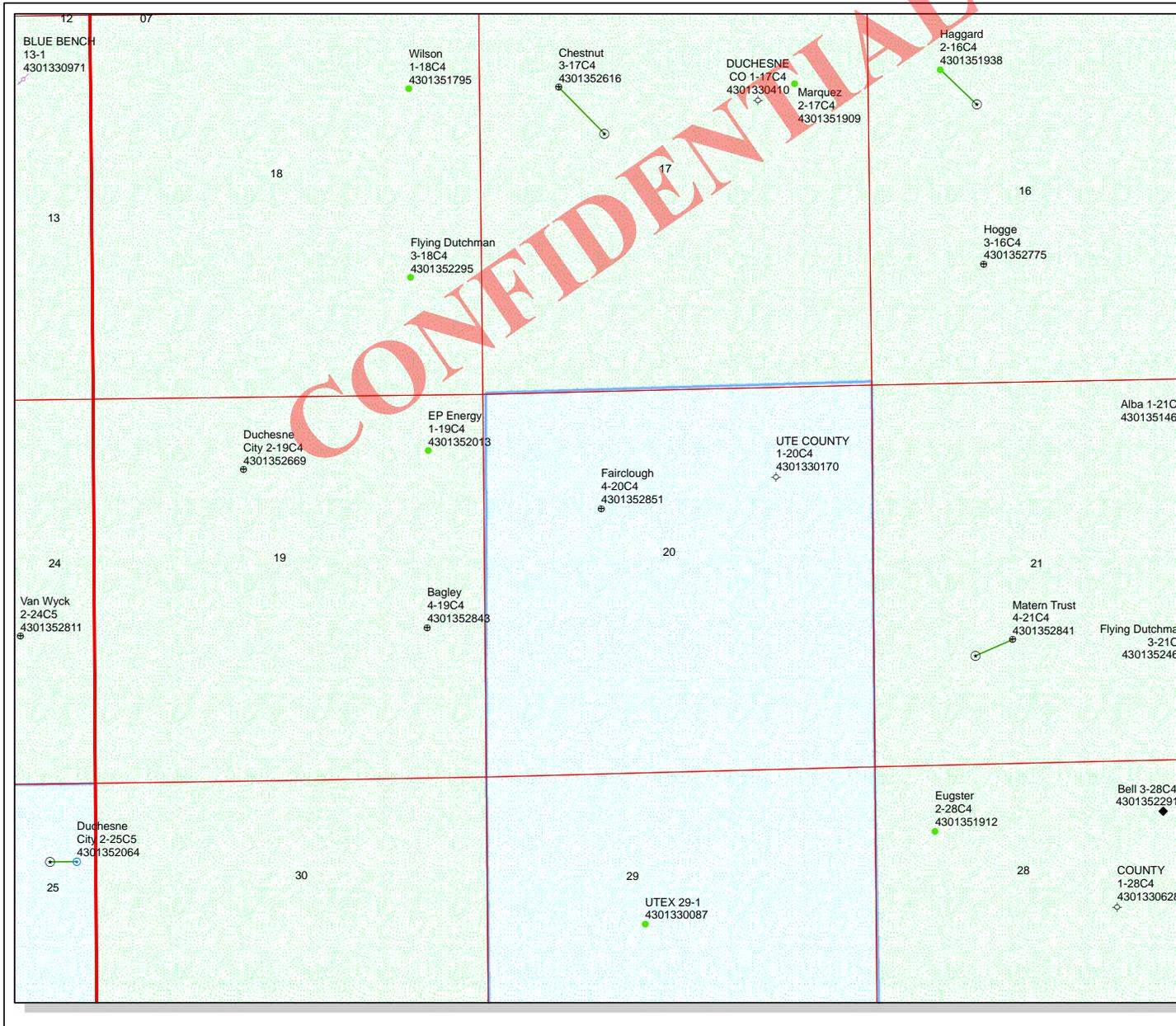
EP Energy E&P Company, L.P.
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

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: 4301352851

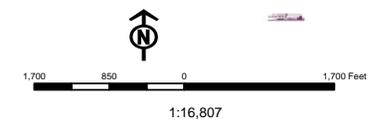
Well Name: Fairclough 4-20C4

Township: T03.0S Range: R04.0W Section: 20 Meridian: U

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

Map Prepared: 2/13/2014
Map Produced by Diana Mason

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



Well Name	EP ENERGY E&P COMPANY, L.P. Fairclough 4-20C4 43013528510000			
String	Cond	Surf	I1	L1
Casing Size(")	13.375	9.625	7.000	5.000
Setting Depth (TVD)	600	2000	9000	12000
Previous Shoe Setting Depth (TVD)	0	600	2000	9000
Max Mud Weight (ppg)	8.8	9.4	10.6	13.2
BOPE Proposed (psi)	1000	1000	10000	10000
Casing Internal Yield (psi)	2730	5750	11220	13940
Operators Max Anticipated Pressure (psi)	8237			13.2

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

Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	978	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	738	YES <input type="checkbox"/> 4.5 x 13 3/8 rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	538	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)=	670	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		600	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4961	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3881	YES <input type="checkbox"/> 10M BOPE w/rotating head, 5M annular, blind rams, flex
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2981	YES <input type="checkbox"/> rams, mud cross, 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)=	3421	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2000	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	5.000	"
Max BHP (psi)	.052*Setting Depth*MW=	8237	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	6797	YES <input type="checkbox"/> 10M BOPE w/rotating head, 5M annular, blind rams, flex
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	5597	YES <input type="checkbox"/> rams, mud cross, 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)=	7577	YES <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		9758	psi
*Max Pressure Allowed @ Previous Casing Shoe=		9000	psi *Assumes 1psi/ft frac gradient

Well name:	43013528510000 Fairclough 4-20C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Conductor	Project ID: 43-013-52851
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 9.000 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: 82 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Burst

Max anticipated surface pressure: 209 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 281 psi

Burst:

Design factor 1.00

Cement top: Surface

No backup mud specified.

Tension:

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

Non-directional string.

Tension is based on buoyed weight.
Neutral point: 520 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	600	13.375	54.50	J-55	ST&C	600	600	12.49	7445
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	281	1130	4.028	281	2730	9.73	28.3	514	18.13 J

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

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

Date: April 17, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 600 ft, a mud weight of 9 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:	43013528510000 Fairclough 4-20C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Surface	Project ID: 43-013-52851
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 9.400 ppg
Design is based on evacuated pipe.

Burst

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

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

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

Tension is based on buoyed weight.
Neutral point: 1,720 ft

Environment:

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

Cement top: Surface

Non-directional string.

Re subsequent strings:

Next setting depth: 9,000 ft
Next mud weight: 10.600 ppg
Next setting BHP: 4,956 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,000 ft
Injection pressure: 2,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2000	9.625	40.00	N-80	LT&C	2000	2000	8.75	25448
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	977	3090	3.164	2000	5750	2.88	68.8	737	10.71 J

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

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

Date: April 17, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2000 ft, a mud weight of 9.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

Well name:	43013528510000 Fairclough 4-20C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Intermediate	Project ID: 43-013-52851
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 10.600 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

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

Cement top: 4,142 ft

Burst

Max anticipated surface pressure: 5,589 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 7,569 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: 7,556 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 12,000 ft
Next mud weight: 13.200 ppg
Next setting BHP: 8,229 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 9,000 ft
Injection pressure: 9,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9000	7	29.00	HCP-110	LT&C	9000	9000	6.059	101630
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	4956	9200	1.856	7569	11220	1.48	219.1	797	3.64 J

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

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

Date: August 13, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9000 ft, a mud weight of 10.6 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:	43013528510000 Fairclough 4-20C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Production Liner	Project ID: 43-013-52851
Location:	DUCHESNE COUNTY	

Design parameters:

Collapse

Mud weight: 13.200 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 5,589 psi
Internal gradient: 0.220 psi/ft
Calculated BHP: 8,229 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: 11,357 ft

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 242 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 9,679 ft

Liner top: 8,800 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	12000	12000	4.151	253440
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	8229	15360	1.867	8229	13940	1.69	46	341	7.41 J

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

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

Date: April 17, 2014
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 12000 ft, a mud weight of 13.2 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 Fairclough 4-20C4
API Number 43013528510000 **APD No** 9403 **Field/Unit** ALTAMONT
Location: 1/4,1/4 SENW **Sec** 20 **Tw** 3.0S **Rng** 4.0W 1638 FNL 1606 FWL
GPS Coord (UTM) 554094 4451109 **Surface Owner** David E. and Jo Fairclough

Participants

Jared Thacker (EP Energy); Heather Ivie (Land man); Dennis Ingram (DOGM)

Regional/Local Setting & Topography

The proposed Fairclough 4-20C4 staked up 3.54 miles north of Duchesne, then east along a county road for 1.32 miles, then south along access road for another 0.33 miles into the well pad. Regionally, this well is located in northeastern Utah in the Uintah Basin along the southern edge of Blue Bench out near Rocky Point, where several canyons head up and drain snow melt or storm waters south toward the Duchesne River Corridor. The topography at the well pad is open rangelands with good stands of sagebrush, bunch grass and cactus that slopes gently to the south.

Surface Use Plan

Current Surface Use
 Wildlife Habitat
 Recreational

New Road Miles	Well Pad Width 392 Length 465	Src Const Material	Surface Formation
0.33		Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Sagebrush, bunch grass, prickly pear cactus; potential mule deer, mountain lion, coyote, fox, raccoon, rabbits, ground squirrels and smaller mammals common to or near the Duchesne River bottoms.

Soil Type and Characteristics

Reddish, fine-grained sand with some clays and gravels

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

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

Site-Specific Factors	Site Ranking
Distance to Groundwater (feet) >200	0
Distance to Surface Water (feet) >1000	0
Dist. Nearest Municipal Well (ft) >5280	0
Distance to Other Wells (feet) >1320	0
Native Soil Type High permeability	20
Fluid Type Fresh Water	5
Drill Cuttings Normal Rock	0
Annual Precipitation (inches)	0
Affected Populations 10 to 30	10 to 30
Presence Nearby Utility Conduits Not Present	0
Final Score	31 1 Sensitivity Level

Characteristics / Requirements

Reserve pit staked off the north side of location in cut, measuring 110' wide by 150' long by 15' deep.

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

Landowners invited but did not attend, surface relatively flat, no drainage issues

Dennis Ingram
Evaluator3/6/2014
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
9403	43013528510000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	David E. and Jo Fairclough	
Well Name	Fairclough 4-20C4		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	SENW 20 3S 4W U 1638 FNL (UTM) 554098E 4451119N		1606 FWL	GPS Coord	

Geologic Statement of Basis

El Paso proposes to set 600 feet of conductor and 2,000 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 1,200 feet. A search of Division of Water Rights records indicates that there are 12 water wells within a 10,000 foot radius of the center of Section 20. These wells probably produce water from the Duchesne River Formation and associated alluvium. Depths of the wells fall in the range of 57-370 feet. The wells are listed as being used for irrigation, stock watering, municipal and domestic. The proposed drilling, casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill
APD Evaluator

3/11/2014
Date / Time

Surface Statement of Basis

Surface slopes southerly showing 4.2 feet of cut along the northwest side of the reserve pit and 1.8 feet of fill at the southeastern edge of location. There aren't any drainage or erosion issues on this surface at the present time. A reserve pit is planned and staked along the north side of the location in cut, and shall be lined with a 20 mil synthetic liner as shown in the operator plan. The location shall also be bermed to prevent fluids from leaving the well site into an adjacent drainage to the southwest.

A presite was scheduled and done on March 6, 2014 to address issues regarding the construction and drilling of the Bagley 4-19C4 well. David Fairclough was contacted and invited to the presite as landowner. E&P energy has submitted documentation to the Division that they do have a surface damage agreement with the landowner of record.

Dennis Ingram
Onsite Evaluator

3/6/2014
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 north side of the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/11/2014

API NO. ASSIGNED: 43013528510000

WELL NAME: Fairclough 4-20C4

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: SENW 20 030S 040W

Permit Tech Review:

SURFACE: 1638 FNL 1606 FWL

Engineering Review:

BOTTOM: 1638 FNL 1606 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.20874

LONGITUDE: -110.36430

UTM SURF EASTINGS: 554098.00

NORTHINGS: 4451119.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

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

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

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

Comments: Presite Completed

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



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. HAZA
Division Director

Permit To Drill

Well Name: Fairclough 4-20C4

API Well Number: 43013528510000

Lease Number: Fee

Surface Owner: FEE (PRIVATE)

Approval Date: 8/14/2014

Issued to:

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

Authority:

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

Duration:

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

General:

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

Conditions of Approval:

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

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

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

Additional Approvals:

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

well:

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

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved By:

Approved by:

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

For John Rogers
Associate Director, Oil & Gas



Alexis Huefner <alexishuefner@utah.gov>

24 Hour Notice of Initial Spud on the following well: Fairclough 4-20C4

1 message

RLANDRIG008 <RLANDRIG008@epenergy.com> Sat, Aug 16, 2014 at 12:51 PM
To: Alexis Huefner <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, Carol Daniels <caroldaniels@utah.org>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>, "Ward, Julia A (Julie)" <Julie.Ward@epenergy.com>
Cc: RLANDRIG009 <RLANDRIG009@epenergy.com>

Aug. 16, 2014

24 Hour Notice of Initial Spud on the following well.

CONFIDENTIAL

Well Name: Fairclough 4-20C4

API Well Number: 43013528510000

Field: Altamont

County: Duchesne

Mineral Owner: Fee

1638 FWL 1606 FWL
SEW 20 384W

Aug. 15, 2014

09:00 AM

Leon Ross Drilling

Rig #35 Bucket Rig

Best Regards

Steven Murphy

Rig Site Supervisor

EP Energy LLC

C: 435-823-1725

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>

SE NW S-20 T-035 R-04W

FEE LEASE

24hr Notice Run & Cement Casing

1 message

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

Tue, Sep 2, 2014 at 2:17 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

FAIRCLOUGH 4-20C4

API # 43013528510000

ALTAMONT FIELD

DUCHESNE COUNTY

We commenced drilling with Precision Drilling Rig 406 @ 08:00hrs 8/29/14, we reached Intermediate Casing point @ 19:30hrs on 9/1/2014. We plan on running and cementing 7" 29# P-110HC LTC Casing to +/- 8,818' within 24hrs.

Regards,

Tony Wilkerson / Bill Owen

EP Energy LLC

PD Rig 406

Rig: 713-997-1220

Cell: 435-823-1764

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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: Fairclough 4-20C4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1638 FNL 1606 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 20 Township: 03.0S Range: 04.0W Meridian: U	9. API NUMBER: 43013528510000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext
9. FIELD and POOL or WILDCAT: ALTAMONT	COUNTY: DUCHESNE
STATE: UTAH	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: 9/26/2014	<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.
 Please see attached procedure to complete into the Wasatch.

Approved by the
September 17, 2014
Oil, Gas and Mining

Date: _____
 By: DeKQ

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 9/17/2014	

Fairclough 4-20C4

Initial Completion

API # : 4301352851

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 ~10925' – 11284' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 153673 gals. |
| Stage #2 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10511' – 10835' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of Power Prop 30/50. Total clean water volume is 153364 gals. |
| Stage #3 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10217' – 10458' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 153144 gals. |
| Stage #4 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9885' – 10154' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 152897 gals. |
| Stage #5 | RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9589' – 9859' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 152676 gals. |

Stage #6 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9330' – 9559' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 152483 gals.

Stage #7 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9086' – 9300' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 152301 gals.

Stimulation Summary

	Top Perf	Btm. Perf	Gross Interval	Plug Depth	Net Perf Length	Total Shots	Perf Intervals	Type of Prop	Lbs of Prop	Lbs/ft	Lbs of 100 Mesh	Gals of HCL (15%)	Gals of Clean H2O	Gals of Slurry
Stage #1	10,925	11,284	359	NA	23	69	17	Power Prop 30/50	150,000	418	3,000	5,000	153,673	4,184
Stage #2	10,511	10,835	324	10,850	23	69	17	Power Prop 30/50	150,000	463	3,000	5,000	153,364	4,177
Stage #3	10,217	10,458	241	10,473	20	60	15	TLC 30/50	150,000	622	3,000	5,000	153,144	4,166
Stage #4	9,885	10,154	269	10,169	22	66	17	TLC 30/50	150,000	558	3,000	5,000	152,897	4,160
Stage #5	9,589	9,859	270	9,874	21	63	15	TLC 30/50	150,000	556	3,000	5,000	152,676	4,155
Stage #6	9,330	9,559	229	9,574	23	69	17	TLC 30/50	150,000	655	3,000	5,000	152,483	4,150
Stage #7	9,086	9,300	214	9,315	22	66	17	TLC 30/50	150,000	701	3,000	5,000	152,301	4,146
Stage #8	8,846	9,052	206	9,067	21	63	17	TLC 30/50	150,000	728	3,000	5,000	152,122	4,142
Average per Stage			264		22	66	17		150,000	588	3,000	5,000	152,833	4,160
Totals per Well			2,112		175	525	132		1,200,000		24,000	40,000	1,222,660	33,279

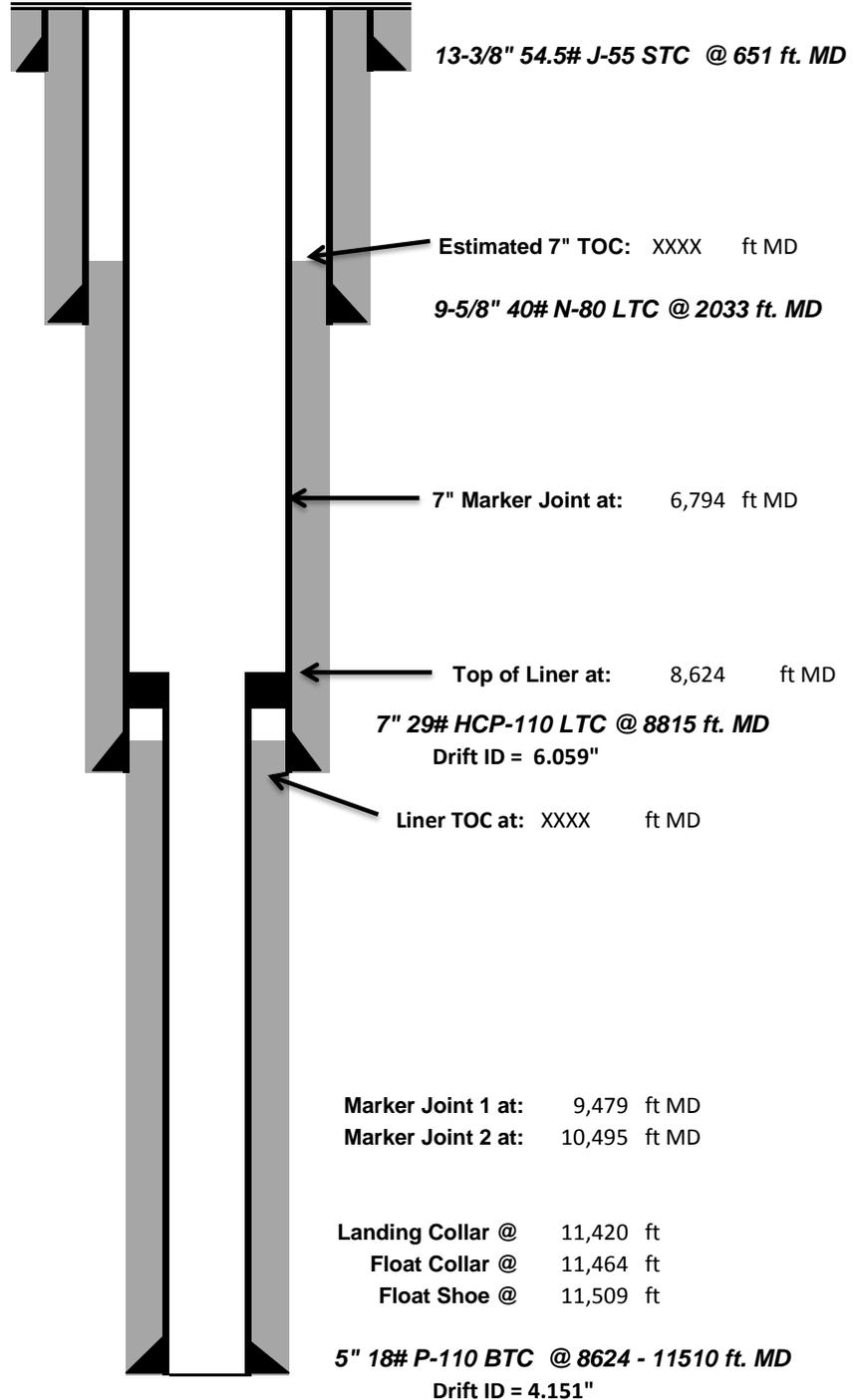


Pre-Completion Wellbore Schematic

Well Name: **Fairclough 4-20C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°12'31.077" N Long: 110°21'51.559" W**
 Producing Zone(s): **Wasatch**

Last Updated: **9/8/2014**
 By: **Jarrold Kent**
 TD: **11,509**
 API: **4301352851**
 AFE: **161147**

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



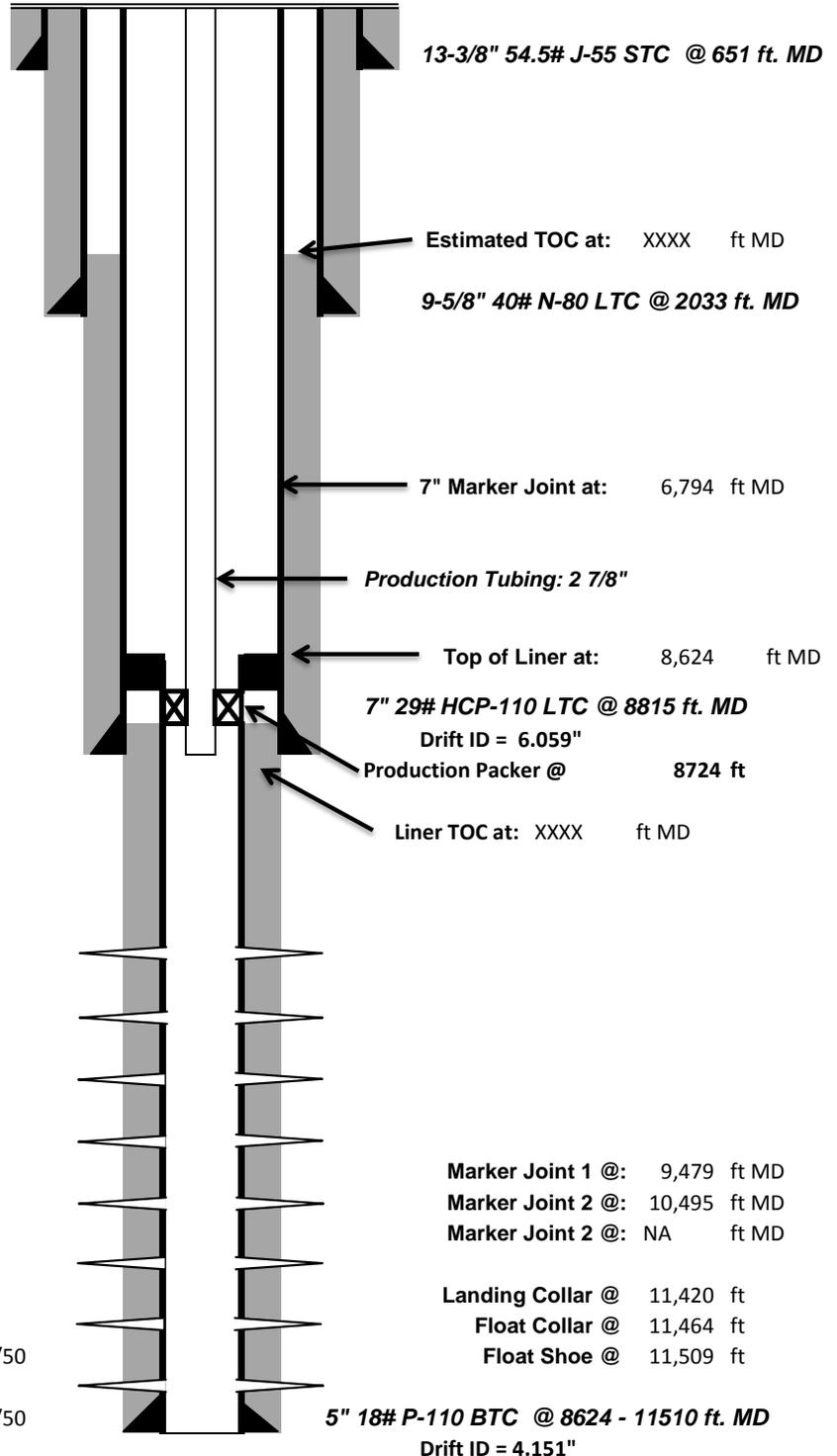


Post-Completion Wellbore Schematic

Well Name: **Fairclough 4-20C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°12'31.077" N Long: 110°21'51.559" W**
 Producing Zone(s): **Wasatch**

Last Updated: _____
 By: _____
 TD: **11,509**
 API: **4301352851**
 AFE: **161147**

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



Initial Completion Perf Information

Stage #	Depth Range	Shots	Fluids
Stage #8	8846 - 9052	21' /63 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #7	9086 - 9300	22' /66 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #6	9330 - 9559	23' /69 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #5	9589 - 9859	21' /63 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #4	9885 - 10154	22' /66 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #3	10217 - 10458	20' /60 shots	5000 gal HCL & 150000 lbs TLC 30/50
Stage #2	10511 - 10835	23' /69 shots	5000 gal HCL & 150000 lbs Power Prop 30/50
Stage #1	10925 - 11284	23' /69 shots	5000 gal HCL & 150000 lbs Power Prop 30/50



SE/W 5-20 T03S R04W

CONFIDENTIAL
Carol Daniels <caroldaniels@utah.gov>
FEE LEASE

24 HRS NOTICE RUN 5 IN LINER & CEMENT

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com> Sun, Sep 7, 2014 at 7:18 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>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>

EP ENERGY / RUN & CMT 5" PROD LINER

EP ENERGY
FAIRCLOUGH 4-20C4
API # 43013528510000
ALTAMONT FIELD
DUCHESNE COUNTY

EP reached TD (11510') of the 6 1/8" production hole @ 12:30 PM 09-06-14. We are currently preparing to run a 5" 18# HCP110 liner. We anticipate starting cement operations @ 03:00 AM 09-08-14. If any other information is required please contact us @ the numbers below.

Thanks,

Thanks,

LLoyd Rowell / Morgan Harden
EP Energy / PD 406
713-997-1220 (Rig)
435-823-1764 (Cell)

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

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG		5. LEASE DESIGNATION AND SERIAL NUMBER:
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME
2. NAME OF OPERATOR:		8. WELL NAME and NUMBER:
3. ADDRESS OF OPERATOR: CITY _____ STATE _____ ZIP _____		9. API NUMBER:
PHONE NUMBER: _____		10 FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: AT TOP PRODUCING INTERVAL REPORTED BELOW: AT TOTAL DEPTH:		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
		12. COUNTY _____ 13. STATE UTAH

14. DATE SPUDDED:	15. DATE T.D. REACHED:	16. DATE COMPLETED: _____	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input type="checkbox"/>	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 <input type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input type="checkbox"/> (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					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								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.	30. WELL STATUS:
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> DST REPORT <input type="checkbox"/> DIRECTIONAL SURVEY <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> OTHER: _____	

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
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 November 1, 2014****Well Name: Fairclough 4-20C4****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
9885'-10154'	.43	66	Open
9589'-9861'	.43	63	Open
9330'-9559'	.43	69	Open
9086'-9300'	.43	66	Open
8846'-9051'	.43	63	Open

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

Depth Interval	Amount and Type of Material
9885'-10154'	5000 gal acid, 3000# 100 mesh, 149980# 30/50 PowerProp
9589'-9861'	5000 gal acid, 3000# 100 mesh, 150080# 30/50 PowerProp
9330'-9559'	5000 gal acid, 3000# 100 mesh, 149460# 30/50 PowerProp
9086'-9300'	5000 gal acid, 3000# 100 mesh, 150300# 30/50 PowerProp
8846'-9051'	5000 gal acid, 3000# 100 mesh, 149320# 30/50 PowerProp

Company: EP Energy
 Well: Fairclough 4-20C4
 Location: Duchesne, UT
 Rig: Precision 406

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

Calculation Method
 Proposed Azimuth
 Depth Reference
 Tie Into:

Minimum Curvature
 0.00
 KB
 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 (d/100')			
Tie In	0.00	0.00	0.00										
1	100.00	0.45	278.58	100.00	100.00	0.06	0.39	0.39	278.58	0.45	0.45	278.58	278.58
2	200.00	0.21	98.13	100.00	200.00	0.09	0.60	0.60	278.72	0.66	-0.24	-180.45	278.72
3	300.00	0.27	133.75	100.00	300.00	-0.10	0.24	0.26	248.16	0.16	0.06	35.62	248.16
4	400.00	0.16	154.24	100.00	400.00	-0.39	0.01	0.39	181.88	0.13	-0.11	20.49	181.88
5	500.00	0.12	81.01	100.00	500.00	-0.50	0.15	0.52	163.01	0.17	-0.04	-73.23	163.01
6	600.00	0.24	311.91	100.00	600.00	-0.34	0.10	0.35	163.74	0.33	0.12	230.90	163.74
7	700.00	0.12	154.29	100.00	700.00	-0.29	0.01	0.29	182.23	0.35	-0.12	-157.62	182.23
8	800.00	0.13	209.52	100.00	800.00	-0.49	0.02	0.49	182.58	0.12	0.01	55.23	182.58
9	900.00	0.45	218.68	100.00	899.99	-0.89	0.32	0.95	199.91	0.32	0.32	9.16	199.91
10	1000.00	1.02	212.48	100.00	999.99	-1.95	1.05	2.21	208.23	0.57	0.57	-6.20	208.23
11	1100.00	0.81	229.17	100.00	1099.97	-3.16	2.06	3.77	213.07	0.34	-0.21	16.69	213.07
12	1200.00	0.92	230.52	100.00	1199.96	-4.14	3.21	5.24	217.85	0.11	0.11	1.35	217.85
13	1300.00	0.99	221.56	100.00	1299.95	-5.29	4.41	6.89	219.78	0.16	0.07	-8.96	219.78
14	1400.00	1.18	222.86	100.00	1399.93	-6.69	5.68	8.78	220.32	0.19	0.19	1.30	220.32
15	1500.00	1.23	233.15	100.00	1499.91	-8.09	7.24	10.86	221.82	0.22	0.05	10.29	221.82
16	1600.00	1.59	231.34	100.00	1599.88	-9.60	9.18	13.29	223.72	0.36	0.36	-1.81	223.72
17	1700.00	1.59	237.51	100.00	1699.84	-11.21	11.21	16.02	225.56	0.17	0.00	6.17	225.56
18	1800.00	1.83	248.81	100.00	1799.79	-12.54	12.54	18.86	228.35	0.41	0.24	11.30	228.35
19	1900.00	1.79	248.88	100.00	1899.74	-13.68	13.68	21.85	231.25	0.04	-0.04	0.07	231.25
20	1932.00	1.98	242.80	32.00	1931.73	-14.11	14.11	22.87	231.91	0.86	0.59	-19.00	231.91
21	2087.00	2.09	240.62	155.00	2086.63	-16.72	16.72	28.31	233.80	0.09	0.07	-1.41	233.80
22	2151.00	1.68	244.42	64.00	2150.59	-17.70	17.70	30.39	234.38	0.67	-0.64	5.94	234.38
23	2246.00	0.08	151.66	95.00	2245.58	-18.36	18.36	31.77	234.70	1.77	-1.68	-97.64	234.70
24	2342.00	1.09	31.07	96.00	2341.58	-17.63	17.63	30.94	235.26	1.18	1.05	-125.61	235.26
25	2438.00	2.35	359.82	96.00	2437.53	-14.88	14.88	29.06	239.19	1.59	1.31	342.45	239.19
26	2535.00	5.17	7.44	97.00	2534.31	-8.56	8.56	25.86	250.67	2.95	2.91	-363.28	250.67
27	2631.00	7.36	9.35	96.00	2629.73	1.80	1.80	22.91	274.50	2.29	2.28	1.99	274.50
28	2727.00	7.16	9.04	96.00	2724.96	13.77	13.77	25.03	303.38	0.21	-0.21	-0.32	303.38
29	2824.00	6.44	8.09	97.00	2821.28	25.13	25.13	31.62	322.64	0.75	-0.74	-0.98	322.64
30	2919.00	6.47	0.76	95.00	2915.68	35.76	35.76	40.20	332.81	0.87	0.03	-7.72	332.81
31	3015.00	6.54	1.28	96.00	3011.06	46.63	46.63	50.05	338.71	0.10	0.07	0.54	338.71
32	3110.00	7.00	358.14	95.00	3105.40	57.82	57.82	60.63	342.49	0.62	0.48	375.64	342.49
33	3206.00	6.34	354.06	96.00	3200.75	68.94	68.94	71.51	344.61	0.85	-0.69	-4.25	344.61
34	3302.00	6.62	0.16	96.00	3296.14	79.75	79.75	82.10	346.25	0.77	0.29	-368.65	346.25
35	3398.00	6.27	0.86	96.00	3391.53	90.52	90.52	92.58	347.89	0.37	-0.36	0.73	347.89

Company: EP Energy
 Well: Fairclough 4-20C4
 Location: Duchesne, UT
 Rig: Precision 406

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

Calculation Method
 Proposed Azimuth
 Depth Reference
 Tie Into:

Minimum Curvature
 0.00
 KB
 Gyro/MWD



Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth				
36	3494.00	6.63	5.41	96.00	3486.92	101.28	N	18.82	W	103.02	349.48	0.65	0.38	4.74
37	3590.00	5.98	5.34	96.00	3582.34	111.78	N	17.83	W	113.19	350.94	0.68	-0.68	-0.07
38	3687.00	5.54	5.05	97.00	3678.85	121.48	N	16.95	W	122.65	352.06	0.45	-0.45	-0.30
39	3783.00	6.41	17.04	96.00	3774.33	131.22	N	14.97	W	132.07	353.49	1.58	0.91	12.49
40	3879.00	6.61	29.85	96.00	3869.72	141.13	N	10.65	W	141.53	355.69	1.52	0.21	13.34
41	3975.00	7.03	37.73	96.00	3965.04	150.57	N	4.30	W	150.63	358.36	1.07	0.44	8.21
42	4071.00	6.12	41.70	96.00	4060.41	159.04	N	2.70	E	159.06	0.97	1.06	-0.95	4.14
43	4168.00	5.64	45.45	97.00	4156.90	166.24	N	9.53	E	166.52	3.28	0.63	-0.49	3.87
44	4263.00	5.37	48.17	95.00	4251.46	172.48	N	16.17	E	173.24	5.36	0.40	-0.28	2.86
45	4359.00	5.81	42.14	96.00	4347.01	179.08	N	22.78	E	180.52	7.25	0.76	0.46	-6.28
46	4454.00	5.16	30.33	95.00	4441.57	186.33	N	28.16	E	188.45	8.60	1.37	-0.68	-12.43
47	4551.00	4.43	15.76	97.00	4538.24	193.70	N	31.38	E	196.23	9.20	1.46	-0.75	-15.02
48	4647.00	3.50	13.95	96.00	4634.01	200.12	N	33.10	E	202.84	9.39	0.98	-0.97	-1.89
49	4743.00	3.30	5.53	96.00	4729.84	205.71	N	34.07	E	208.51	9.40	0.56	-0.21	-8.77
50	4840.00	3.33	4.19	97.00	4826.68	211.30	N	34.55	E	214.11	9.29	0.09	0.03	-1.38
51	4936.00	4.11	358.94	96.00	4922.47	217.52	N	34.69	E	220.27	9.06	0.89	0.81	369.53
52	5032.00	4.75	5.28	96.00	5018.19	224.92	N	34.99	E	227.62	8.84	0.84	0.67	-368.40
53	5127.00	3.53	357.09	95.00	5112.94	231.76	N	35.20	E	234.41	8.64	1.42	-1.28	370.33
54	5223.00	4.09	357.00	96.00	5208.73	238.13	N	34.87	E	240.67	8.33	0.58	0.58	-0.09
55	5319.00	4.19	353.74	96.00	5304.48	245.03	N	34.31	E	247.42	7.97	0.27	0.10	-3.40
56	5415.00	3.46	348.36	96.00	5400.26	251.35	N	33.34	E	253.56	7.56	0.85	-0.76	-5.60
57	5512.00	2.62	340.75	97.00	5497.12	256.31	N	32.02	E	258.31	7.12	0.96	-0.87	-7.85
58	5608.00	1.80	333.71	96.00	5593.05	259.74	N	30.63	E	261.54	6.73	0.90	-0.85	-7.33
59	5705.00	1.16	313.01	97.00	5690.02	261.77	N	29.24	E	263.40	6.37	0.85	-0.66	-21.34
60	5801.00	0.85	283.16	96.00	5786.01	262.60	N	27.83	E	264.07	6.05	0.62	-0.32	-31.09
61	5897.00	0.89	240.82	96.00	5882.00	262.40	N	26.49	E	263.73	5.76	0.66	0.04	-44.10
62	5993.00	1.17	226.87	96.00	5977.98	261.36	N	25.12	E	262.57	5.49	0.39	0.29	-14.53
63	6089.00	1.43	224.72	96.00	6073.96	259.84	N	23.57	E	260.91	5.18	0.28	0.27	-2.24
64	6186.00	1.61	220.56	97.00	6170.92	257.95	N	21.83	E	258.87	4.84	0.22	0.19	-4.29
65	6281.00	1.63	216.40	95.00	6265.88	255.85	N	20.16	E	256.64	4.50	0.13	0.02	-4.38
66	6376.00	1.98	212.82	95.00	6360.84	253.38	N	18.47	E	254.05	4.17	0.39	0.37	-3.77
67	6471.00	2.34	208.96	95.00	6455.77	250.30	N	16.64	E	250.86	3.80	0.41	0.38	-4.06
68	6567.00	1.99	180.93	96.00	6551.70	246.92	N	15.66	E	247.42	3.63	1.15	-0.36	-29.20
69	6662.00	1.48	138.39	95.00	6646.66	244.36	N	16.45	E	244.91	3.85	1.42	-0.54	-44.78
70	6758.00	1.50	152.16	96.00	6742.63	242.32	N	17.86	E	242.97	4.22	0.37	0.02	14.34
71	6854.00	1.85	170.71	96.00	6838.59	239.68	N	18.70	E	240.40	4.46	0.67	0.36	19.32
72	6951.00	2.43	176.91	97.00	6935.52	236.08	N	19.06	E	236.85	4.62	0.64	0.60	6.39

Company: EP Energy
 Job Number: Fairclough 4-20C4
 Well: Duchesne, UT
 Location: Precision 406
 Rig: MWD Eng:

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

Mag Decl: 0.00
 Dir Driller: KB
 MWD Eng: 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				
73	7047.00	2.82	171.11	96.00	7031.42	231.71	N	19.54	E	232.53	4.82	0.49	0.41	-6.04
74	7142.00	1.97	187.31	95.00	7126.34	227.78	N	19.69	E	228.63	4.94	1.14	-0.89	17.05
75	7239.00	2.34	187.99	97.00	7223.27	224.17	N	19.20	E	224.99	4.90	0.38	0.38	0.70
76	7335.00	2.07	173.90	96.00	7319.20	220.50	N	19.11	E	221.33	4.95	0.63	-0.28	-14.68
77	7431.00	2.21	178.52	96.00	7415.13	216.93	N	19.34	E	217.79	5.10	0.23	0.15	4.81
78	7527.00	2.13	173.24	96.00	7511.06	213.31	N	19.60	E	214.21	5.25	0.22	-0.08	-5.50
79	7623.00	2.44	170.91	96.00	7606.99	209.52	N	20.14	E	210.48	5.49	0.34	0.32	-2.43
80	7719.00	2.73	180.31	96.00	7702.89	205.21	N	20.45	E	206.23	5.69	0.53	0.30	9.79
81	7815.00	2.27	190.66	96.00	7798.80	201.06	N	20.08	E	202.06	5.70	0.67	-0.48	10.78
82	7911.00	2.21	189.93	96.00	7894.72	197.37	N	19.41	E	198.32	5.62	0.07	-0.06	-0.76
83	8007.00	2.63	187.41	96.00	7990.64	193.36	N	18.81	E	194.27	5.56	0.45	0.44	-2.63
84	8102.00	2.92	187.68	95.00	8085.53	188.80	N	18.20	E	189.68	5.51	0.31	0.31	0.28
85	8198.00	1.14	204.10	96.00	8181.46	185.51	N	17.49	E	186.33	5.39	1.93	-1.85	17.10
86	8295.00	1.31	199.09	97.00	8278.44	183.58	N	16.73	E	184.34	5.21	0.21	0.18	-5.16
87	8390.00	1.94	200.87	95.00	8373.40	181.05	N	15.80	E	181.74	4.99	0.67	0.66	1.87
88	8487.00	1.78	207.25	97.00	8470.35	178.18	N	14.53	E	178.77	4.66	0.27	-0.16	6.58
89	8582.00	2.38	210.68	95.00	8565.29	175.17	N	12.85	E	175.64	4.19	0.64	0.63	3.61
90	8678.00	1.58	247.78	96.00	8661.23	172.95	N	10.60	E	173.28	3.51	1.53	-0.83	38.65
91	8754.00	1.52	243.98	76.00	8737.21	172.11	N	8.73	E	172.34	2.90	0.16	-0.08	-5.00
92	8800.00	1.22	240.66	46.00	8783.19	171.61	N	7.75	E	171.78	2.59	0.68	-0.66	-7.22
93	8900.00	1.40	219.51	100.00	8883.17	170.15	N	6.05	E	170.26	2.04	0.51	0.18	-21.16
94	9000.00	1.33	214.52	100.00	8983.14	168.26	N	4.62	E	168.32	1.57	0.14	-0.07	-4.99
95	9100.00	1.91	186.14	100.00	9083.10	165.65	N	3.79	E	165.69	1.31	0.97	0.58	-28.37
96	9200.00	2.12	198.29	100.00	9183.04	162.24	N	3.03	E	162.27	1.07	0.48	0.22	12.15
97	9300.00	2.45	196.06	100.00	9282.96	158.43	N	1.86	E	158.44	0.67	0.33	0.32	-2.23
98	9400.00	2.49	192.73	100.00	9382.87	154.26	N	0.79	E	154.26	0.29	0.15	0.05	-3.33
99	9500.00	2.70	196.56	100.00	9482.77	149.88	N	0.36	W	149.88	359.86	0.27	0.20	3.84
100	9600.00	3.09	187.59	100.00	9582.64	144.96	N	1.38	W	144.96	359.45	0.60	0.40	-8.98
101	9700.00	2.67	197.78	100.00	9682.51	140.07	N	2.45	W	140.09	359.00	0.66	-0.42	10.19
102	9800.00	2.85	189.21	100.00	9782.40	135.40	N	3.56	W	135.44	358.49	0.45	0.19	-8.57
103	9900.00	3.13	185.96	100.00	9882.26	130.23	N	4.24	W	130.30	358.13	0.32	0.27	-3.25
104	10000.00	2.92	186.83	100.00	9982.12	124.98	N	4.83	W	125.08	357.79	0.21	-0.21	0.87
105	10100.00	2.99	185.95	100.00	10081.99	119.86	N	5.40	W	119.98	357.42	0.08	0.07	-0.87
106	10200.00	2.65	193.59	100.00	10181.87	115.02	N	6.21	W	115.19	356.91	0.50	-0.34	7.64
107	10300.00	2.87	192.54	100.00	10281.75	110.33	N	7.30	W	110.57	356.21	0.23	0.22	-1.05
108	10400.00	2.80	183.88	100.00	10381.63	105.44	N	8.01	W	105.75	355.66	0.43	-0.07	-8.66
109	10500.00	3.22	189.44	100.00	10481.49	100.24	N	8.64	W	100.61	355.08	0.51	0.42	5.56

Company: EP Energy
 Well: Fairclough 4-20C4
 Location: Duchesne, UT
 Rig: Precision 406

Job Number:
 Mag Decli.:
 Dir Driller:
 MWD Eng:

Calculation Method
 Proposed Azimuth
 Depth Reference
 Tie Into:

Minimum Curvature
 0.00
 KB
 Gyro/MWD



Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth				
110	10600.00	2.99	199.50	100.00	10581.34	95.01	N	9.97	W	95.53	354.01	0.59	-0.23	10.06
111	10700.00	2.92	197.37	100.00	10681.21	90.12	N	11.60	W	90.86	352.67	0.13	-0.07	-2.13
112	10800.00	2.85	186.01	100.00	10781.09	85.21	N	12.62	W	86.14	351.58	0.58	-0.06	-11.37
113	10900.00	2.70	194.08	100.00	10880.97	80.45	N	13.45	W	81.57	350.51	0.42	-0.16	8.08
114	11000.00	2.93	189.20	100.00	10980.85	75.65	N	14.43	W	77.01	349.20	0.33	0.23	-4.89
115	11100.00	3.08	185.68	100.00	11080.71	70.45	N	15.11	W	72.05	347.90	0.24	0.15	-3.52
116	11200.00	3.27	186.00	100.00	11180.56	64.94	N	15.67	W	66.81	346.43	0.19	0.19	0.33
117	11300.00	3.29	192.95	100.00	11280.39	59.31	N	16.61	W	61.59	344.35	0.40	0.02	6.94
118	11335.00	3.25	190.15	35.00	11315.34	57.36	N	17.01	W	59.83	343.48	0.47	-0.10	-8.00
119	11510.00	3.25	190.15	175.00	11490.06	47.59	N	18.76	W	51.15	338.48	0.00	0.00	0.00

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Fairclough 4-20C4
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013528510000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1638 FNL 1606 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 20 Township: 03.0S Range: 04.0W 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: 1/25/2016	<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.

EP plans to recomplete well into Wasatch/LGR. See attached for details.

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

Date: _____
 By: DeKQ Duff

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 1/15/2016	

Fairclough 4-20C4 Recom Summary Procedure

- POOH with rods, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- Set CBP for 5" 18# casing @ 8,835'. Dump bail 20' CMT on plug @ 8,835'.
- Set CBP for 5" 18# casing @ 8,805'. Dump bail 40' sand on CBP @ 8,805'.
- Stage 1:
 - Perforate new LGR interval from **8,726' – 8,758'**.
 - Acidize perforations with w/ **5,000** gals 15% HCl acid (Stage 1 Recom).
- Stage 2:
 - RIH with 5" CBP & set @ 8,645'.
 - Perforate new LGR interval from **8,494' – 8,555'**.
 - Acidize perforations with w/ **9,000** gals 15% HCl acid (Stage 2 Recom).
- Stage 3:
 - RIH w/ 7" CBP & set @ 8,302'.
 - Perforate new LGR interval from **8,222' – 8,287'**.
 - Acidize perforations with w/ **10,000** gals 15% HCl acid (Stage 3 Recom).
- Stage 4:
 - RIH w/ 7" CBP & set @ 8,192'.
 - Perforate new LGR interval from **8,050' – 8,177'**.
 - Prop Frac Perforations with **60,000** lbs 30/50 prop (w/ **3,000** lbs 100 mesh & **11,000** gals 15% HCl acid) (Stage 4 Recom).
- Stage 5:
 - RIH w/ 7" CBP & set @ 7,910'.
 - Perforate new LGR interval from **7,680' – 7,895'**.
 - Prop Frac Perforations with **105,000** lbs 30/50 prop (w/ **3,000** lbs 100 mesh & **13,000** gals 15% HCl acid) (Stage 5 Recom).
- Clean out well drilling up (2) 7" CBPs leaving 40' sand on top of 5" CBP @ 8,805'. (PBSD @ 8,765') Top perf BELOW plug @ 8,846'.
- RIH w/ production tubing and rods.
- Clean location and resume production.



Current Wellbore Schematic

Well Name: Fairclough 4-20C4
 Company Name: EP Energy
 Field, County, State: Altamont, Duchesne, UT
 Surface Location: Lat: 40°12'31.077" N Long: 110°21'51.559" W
 Producing Zone(s): Wasatch

Last Updated: 12/21/2015
 By: Jarrold Kent
 TD: 11,509
 API: 4301352851
 AFE: -

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

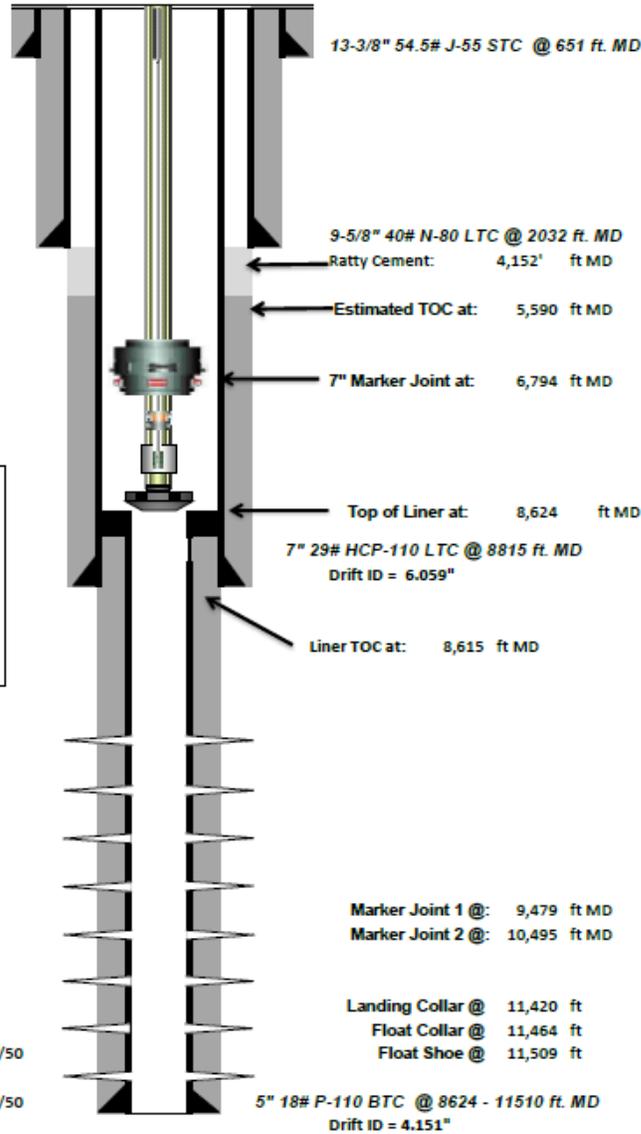
~256 Jts 2 7/8" (6.5#?) L-80 8rd Tubing

Rod Detail
 40' x 1-1/2" Polished Rod
 6' x 1" Pony Rod
 25' x 1" Sucker Rod
 855' - 18/16" SE Semi-Elliptical COROD
 1,000' - 17/16" SE Semi-Elliptical COROD
 975' - 16/16" SE Semi-Elliptical COROD
 4,150' - 15/16" SE Semi-Elliptical COROD
 1,400' - 16/16" SE Semi-Elliptical COROD
 1.5' x 7/8" On/Off Tool
 3' x 7/8" Pony Rod
 38' - 2-1/2" x 1-3/4" Insert PA Pump

Tubing Detail
 7" TAC Tubing Anchor Top @ ~8,379'
 4 jts 2-7/8" N-80 8rd Tubing
 4' x 2 7/8" N-80 Tubing Pup Joint
 1' x 2-7/8" Seating Nipple @ ~8,515'
 2' x 2 7/8" N-80 Tubing Sub
 5-1/2" x 32' PBGA
 2 jt - 2-7/8" N-80 8rd Tubing
 5-3/4" No-Go/ EOT @ ~8,617'

Initial Completion Perf Information

Stage #8	8846 - 9051	21' /63 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #7	9086 - 9300	22' /66 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #6	9330 - 9559	23' /69 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #5	9589 - 9861	21' /63 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #4	9885 - 10154	22' /66 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #3	10217 - 10458	20' /60 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #2	10511 - 10836	23' /69 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50	
Stage #1	10925 - 11284	23' /69 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50	





Proposed Pumping Schematic

Well Name: Fairclough 4-20C4
 Company Name: EP Energy
 Field, County, State: Altamont, Duchesne, UT
 Surface Location: Lat: 40°12'31.077" N Long: 110°21'51.559" W
 Producing Zone(s): Wasatch

Last Updated: 1/14/2016
 By: Erich Kerr
 TD: 11,509
 API: 4301352851
 AFE: -

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

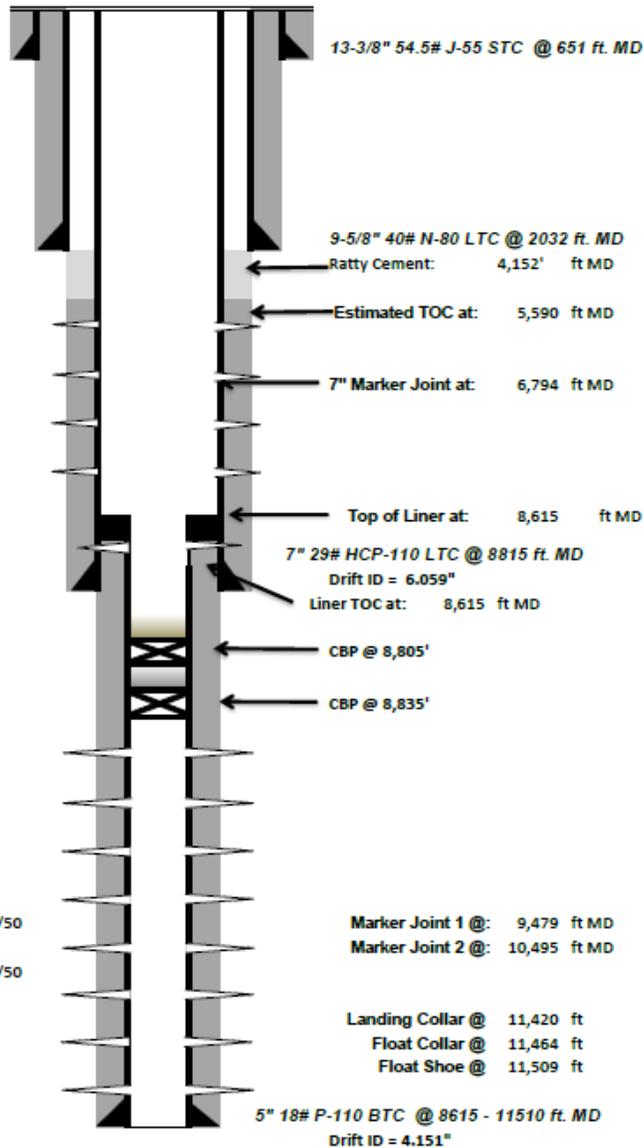
~256 Jts 2 7/8" (6.5#) L-80 8rd Tubing

Proposed Recom Perf Information

<u>Stage #5</u>	7680 - 7895	20' /60 shots
	13000 gal HCL & 105000 lbs White Sand	
<u>Stage #4</u>	8050 - 8177	22' /66 shots
	11000 gal HCL & 60000 lbs White Sand	
<u>Stage #3</u>	8222 - 8287	16' /48 shots
	10000 gal HCL	
<u>Stage #2</u>	8494 - 8555	16' /48 shots
	9000 gal HCL	
<u>Stage #1</u>	8726 - 8758	14' /42 shots
	5000 gal HCL	

Initial Completion Perf Information

<u>Stage #8</u>	8846 - 9051	21' /63 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
<u>Stage #7</u>	9086 - 9300	22' /66 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
<u>Stage #6</u>	9330 - 9559	23' /69 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
<u>Stage #5</u>	9589 - 9861	21' /63 shots
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<u>Stage #4</u>	9885 - 10154	22' /66 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
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	5000 gal HCL & 150000 lbs TLC 30/50	
<u>Stage #2</u>	10511 - 10836	23' /69 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50	
<u>Stage #1</u>	10925 - 11284	23' /69 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50	



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: Fairclough 4-20C4
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013528510000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1638 FNL 1606 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 20 Township: 03.0S Range: 04.0W 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: 2/18/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input checked="" 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 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.

EP while recompleting well 9 5/8" casing has flow. EP would like to remediate. See attached for details.

Approved by the
Feb Davis, 2/18, 2016
Oil, Gas and Mining

Date: _____

By: *D. K. Duff*

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 2/18/2016	

Fairclough 4-20C4**Summary**

Pulled the artificial lift equipment and tubing out and due to build up to 250 psi when open (flows about 1/3 BPM) the following is proposed:

- Pump (down 9-5/8" x 7" annulus) a total of 371 sx (G cement with additives, 1.15 yeild). This will place cement from 350' to ~3,000' by design. The 9-5/8" shoe is at 2,032'.

Here is a table showing my calculations for cement and displacement.

Portion	To p	BTM	ID	OD	Capaci ty [BBL/ft]	Vol [BBL]	Vol [ft^3]	SX CMT	Exces s	SX CMT w/ Exce ss
7" x 9-5/8" Displacement	0	350	8.835	7	0.0282	9.9				
7" x 9-5/8" (CMT)	350	2032	8.835	7	0.0282	47.5	266.6	231.8	0%	231.8
7" x OH (CMT)	2032	3000	8.75	7	0.0268	25.9	145.5	126.5	10%	139.2



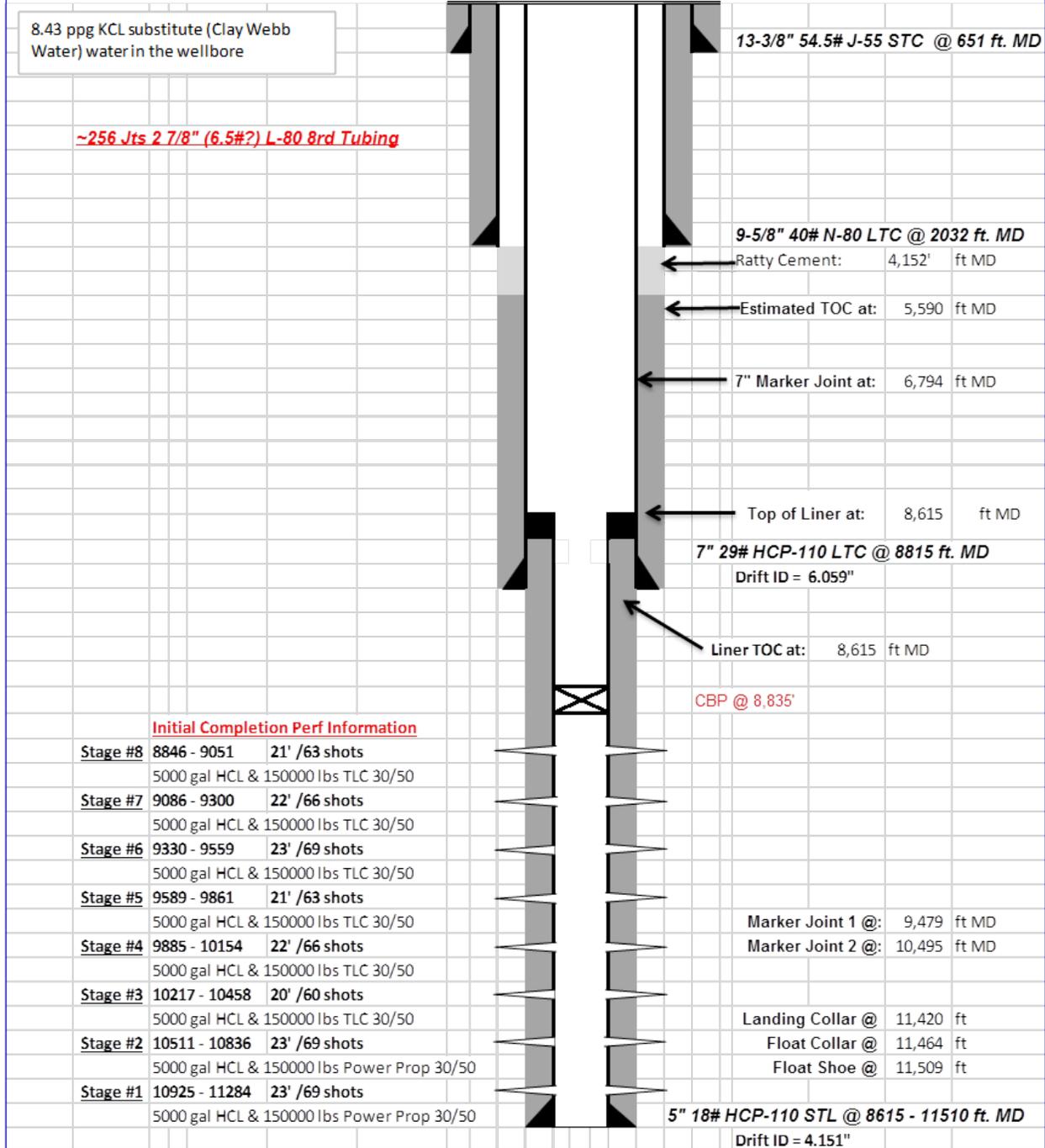
Current Wellbore Schematic

Well Name: **Fairclough 4-20C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°12'31.077" N Long: 110°21'51.559" W**
 Producing Zone(s): **Wasatch**

Last Updated: **2/18/2016**
 By: **Krug**
 TD: **11,509**
 API: **4301352851**
 AFE: **-**

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

~256 Jts 2 7/8" (6.5#?) L-80 8rd Tubing



Initial Completion Perf Information

Stage #	Interval	Shots
Stage #8	8846 - 9051	21' /63 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #7	9086 - 9300	22' /66 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #6	9330 - 9559	23' /69 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #5	9589 - 9861	21' /63 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #4	9885 - 10154	22' /66 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #3	10217 - 10458	20' /60 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #2	10511 - 10836	23' /69 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50	
Stage #1	10925 - 11284	23' /69 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50	

Marker Joint 1 @: 9,479 ft MD
 Marker Joint 2 @: 10,495 ft MD
 Landing Collar @: 11,420 ft
 Float Collar @: 11,464 ft
 Float Shoe @: 11,509 ft

5" 18# HCP-110 STL @ 8615 - 11510 ft. MD
 Drift ID = 4.151"

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG		5. LEASE DESIGNATION AND SERIAL NUMBER:
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME
2. NAME OF OPERATOR:		8. WELL NAME and NUMBER:
3. ADDRESS OF OPERATOR: CITY _____ STATE _____ ZIP _____ PHONE NUMBER: _____		9. API NUMBER:
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: AT TOP PRODUCING INTERVAL REPORTED BELOW: AT TOTAL DEPTH:		10 FIELD AND POOL, OR WILDCAT
		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: U. S. B. & M.
		12. COUNTY _____ 13. STATE UTAH

14. DATE SPUDDED:	15. DATE T.D. REACHED:	16. DATE COMPLETED: ABANDONED <input type="checkbox"/> READY TO PRODUCE <input type="checkbox"/>	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 <input type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input type="checkbox"/> (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 (TAC)

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

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (perforation record continued on page 3)

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS: <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION	<input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS	<input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: _____	<input type="checkbox"/> DIRECTIONAL SURVEY	30. WELL STATUS:
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31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
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 _____

Well Name: _____

Items #27 and #28 Continued

27. Perforation Record

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status

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

Depth Interval	Amount and Type of Material

CENTRAL DIVISION

ALTAMONT FIELD
FAIRCLOUGH 4-20C4
FAIRCLOUGH 4-20C4
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	FAIRCLOUGH 4-20C4		
Project	ALTAMONT FIELD	Site	FAIRCLOUGH 4-20C4
Rig Name/No.		Event	RECOMPLETE LAND
Start date	2/16/2016	End date	2/27/2016
Spud Date/Time	8/29/2014	UWI	FAIRCLOUGH 4-20C4
Active datum	KB @5,878.8usft (above Mean Sea Level)		
Afe No./Description	166256/56122 / FAIRCLOUGH 4-20C4		

2 Summary

2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
2/17/2016	7:30 8:30	1.00	WOR	28		P		ROAD RIG TO LOC, HOLD SAFETY MTG ON COROD OPERATIONS, WRITE & REVIEW JSA'S
	8:30 9:30	1.00	WOR	18		P		SLIDE P.U. BACK SPOT IN & RIG UP COROD RIG
	9:30 13:30	4.00	UNINARTL T	03		P		LD POLISH ROD, ATTEMPT TO UNSEAT PUMP, SHEARED SHEAR TOOL, POOH LD 2' X 1" PONY ROD & LD 1-1" ROD, TOOH W/ 855' 1 1/8", 1000' 1 1/16", 975' 1" & 5550', 4150' 15/16" & 1400' 1" COROD
	13:30 18:00	4.50	WLWORK	21		P		RU W.L., WORK WT BARS & PERF GUN IN HOLE WHILE PUMPING 260 DEG 2% KCL DWN CSG, VERY WAXY, PERF TBG & 8460', POOH RD W.L. & RIG DWN COROD RIG, FLUSH TBG W/ 70 BBLS TREATED 2% KCL, CLOSE & NIGHT CAP CSG VALVE & TIW VALVE SDFN
2/18/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON MOVING RIG. FILLED OUT AND REVIEWED JSA.
	7:30 9:30	2.00	MIRU	01		P		MOVED RIG FROM THE 4-25B4 TO THE 4-20C4. MIRU SERVICE RIG.
	9:30 11:30	2.00	WOR	16		P		ND WELLHEAD. NU AND TESTED BOP @ 4500 PSI HELD.
	11:30 17:00	5.50	WOR	39		P		UNABLE TO RELEASE TAC. RU POWER SWIVEL. RELEASED TAC RU SCANNERS. TAC DRAGGING. TOOH W/ 256-JTS 2 7/8 L-80 EUE TBG, 7" TAC, 4-JTS 2 7/8 L-80 EUE TBG, AND BHA. HAD 239-YELLOW, 19-BLUE, 4-RED, CLOSEDIN WELL, CLOSED CSG VALVES, CLOSED AND LOCKED PIPE RAMS, CLOSED TIW VALVE AND IN STALLED NIGHT CAPS. SDFN.
2/19/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON RIGGING UP WIRELINE. FILLED OUT AND REVIEWED JSA.
	7:30 13:30	6.00	WLWORK	26		P		RU WIRELINE PRESSURE TEST LUBRICATOR, RIH W/ 6" GR/JB TO LINER TOP @ 8615', 9 5/8 SURFACE CSG HAD 250 PSI. OPENED SURFACE CSG WAS FLOWING 1/3 BPM. CONTINUED FLOWING SURFACE CSG. RIH W/ 4.10 GR/JB TO 8852', RIH SET CBP @ 8835', STARTED FILLING 7" CSG @ 2 BPM. SHUT IN SURFACE CSG .PRESSURE CLIMBED TO 200 PSI IN 5 MIN.RIH DUMPED BAILED 15' CEM ON CBP @ 8835' RD WIRELINE.
	13:30 16:30	3.00	WOR	06		P		FINISHED FILLING 7" CSG. TOTAL OF 227 BBLS FLUID LEVEL ~6100'. PRESSURE TEST 7" CSG @ 4900 PSI HELD, NO CHANGE IN 9 5/8" CSG STILL FLOWING 1/3 BPM. BLED DOWN 7" CSG. ESTABLISHED INJECTION RATE DOWN 9 5/8" SURF CSG @ 1/2 BPM @ 2800 PSI.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	16:30 19:00	2.50	WOR	06		P		RU CEMENT EQUIPMENT, PUMPED 400 SKS CLASS G CEMENT W/ 2% CALCIUM CHLORIDE, W/ CELLOPHANE CHIPS DOWN 9 5/8" CSG, STARTING PRESSURE AND RATE 1 BPM @ 2600 PSI, ENDING PRESSURE AND RATE. 2.7 BPM @ 2100 PSI. SHUT IN SURFACE CSG W/ 2000 PSI. CLOSED IN WELL CLOSED AND LOCKED BLIND RAMS CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
2/20/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON NIPPLING DOWN BOPE, FILLED OUT AND REVIEWED JSA.
	7:30 8:30	1.00	WOR	17		P		100 7"CSIP, 9 5/8" SURFACE CSG VALVE FROZE. THAWED OUT VALVE. OPENED WELL NO FLOW. BLED DOWN 7" CSG.
	8:30 13:00	4.50	WOR	16		P		ND 5K BOP, NU 7" FRAC STACK. PRESSURE TEST CSG @ 8000 PSI HELD, FINISHED NU FRAC STACK. PRESSURE TEST STACK @ 10000 PSI HELD,
	13:00 15:30	2.50	WLWORK	21		P		RU WIRELINE. PERFORATED STAGE # 1 FROM 8758' TO 8726'. ALL PERFS CORRELATED TO PERFORATORS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 9/19/2014. 14 NET FT. 42 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1000 PSI. FINAL PRESSURE 200 PSI. RD WIRELINE SHUT IN WELL. CLOSED AND LOCKED FRAC VALVES. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
2/21/2016	6:00 12:00	6.00	SITEPRE	28		P		WAT ON EQUIPMENT. HELD SAFETY MEETING ON HEATING FRAC WATER. FILLED OUT AND REVIEWED JSA,
	12:00 19:00	7.00	SITEPRE	18		P		HEATED 9527 BBLS OF WATER TO 120 DEGREES.
2/22/2016	6:00 7:30	1.50	MIRU	28		P		CREW TRAVEL HELD SAFETY MEETING ON RIGGING UP FRAC EQUIPMENT. FILLED OUT AND REVIEWED JSA.
	7:30 13:00	5.50	MIRU	01		P		MIRU FRAC EQUIPMENT SDFN.
2/23/2016	6:00 6:30	0.50	STG01	28		P		HELD SAFETY MEETING ON PUMPING ACID. FILLED OUT AND REVIEWED JSA.
	6:30 7:30	1.00	STG01	18		P		STARTED FRAC EQUIPMENT. PRESSURE TEST LINES @ 9553.
	7:30 8:30	1.00	STG01	35		P		OPENED WELL W/ 0 PSI. FILLED CSG W/ 130 BBLS. BREAK DOWN STAGE #1 PERFS @ 3681 PSI 13.1 BPM. EST INJECTION RATE 38.9 BPM 4836 PSI. I.S.I.P. 2650 PSI F.G. .74. 5 MIN 1400 PSI, 10 MIN 890 PSI, 15 MIN 595 PSI. TREATED PERFS W/ 3000 GALS 15% HCL ACID.DROPPED 65 BIO BALLS IN 70 BBL SPACER. THEN PUMPED 3000 GAL 15% HCL. AVG RATE 45.2 BPM, MAX RATE 49.1 BPM. AVG PRESS 6779 PSI, MAX PRESS 7745 PSI. I.S.I.P. 2833 PSI, F.G. .757. 5 MIN 2230 PSI. 10 MIN 1976 PSI.SHUT IN WELL. 822 BBLS TO RECOVER
	8:30 10:00	1.50	STG02	21		P		RU WIRELINE. RIH SET 5" CBP @ 8645' W/ 1200 PSI. PERFORATED STAGE # 2 FROM 8555' TO 8494'. ALL PERFS CORRELATED TO PERFORATORS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 9/19/2014. 16 NET FT. 48 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1200 PSI. FINAL PRESSURE 1000 PSI. TURNED WELL OVER TO FRAC CREW.
	10:00 11:00	1.00	STG02	35		P		PRESSURE TEST @ 9626 PSI. OPENED WELL W/ 810 PSI. BREAK DOWN STAGE # 2 PERFS @ 3200 PSI 7.1 BPM. EST INJECTION RATE 32.6 BPM, 3508 PSI. I.S.I.P. 2735 PSI F.G. .75. 5 MIN 2498 PSI, 10 MIN 2384 PSI, 15 MIN 2291PSI. TREATED PERFS W/ 4500 GALS 15% HCL ACID.DROPPED 70 BIO BALLS IN 70 BBL SPACER. THEN PUMPED 4500 GAL 15% HCL. AVG RATE 40.9 BPM, MAX RATE 50.3 BPM. AVG PRESS 4582 PSI, MAX PRESS 7221 PSI. I.S.I.P. 2808 PSI, F.G. .762. 5 MIN 2639 PSI. 10 MIN 2572 PSI.SHUT IN WELL. 658 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	11:00 12:30	1.50	STG03	21		P		RU WIRELINE RIH SET 7" CBP @ 8302' W/ 2400 PSI. PERFORATED STAGE # 3 FROM 8287' TO 8222'. ALL PERFS CORRELATED TO PERFORATORS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 9/19/2014. 14 NET FT. 42 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 2400 PSI. FINAL PRESSURE 2000 PSI. TURNED WELL OVER TO FRAC CREW.
	12:30 13:30	1.00	STG03	35		P		PRESSURE TEST @ 9706 PSI. OPENED WELL W/ 2021PSI. BREAK DOWN STAGE # 3 PERFS @ 2647 PSI 7 BPM. EST INJECTION RATE 39 BPM, 3290 PSI. I.S.I.P. 2145 PSI F.G. .69. 5 MIN 1892 PSI, 10 MIN 1839 PSI, 15 MIN 1818 PSI. TREATED PERFS W/ 5000 GALS 15% HCL ACID. DROPPED 65 BIO BALLS IN 70 BBL SPACER. THEN PUMPED 5000 GAL 15% HCL. AVG RATE 38.6 BPM, MAX RATE 48.2 BPM. AVG PRESS 4591 PSI, MAX PRESS 7833 PSI. I.S.I.P. 2130 PSI, F.G. .691. 5 MIN 1748 PSI. 10 MIN 1602 PSI. SHUT IN WELL. 731 BBLs TO RECOVER. TURNED WELL OVER TO WIRELINE
	13:30 16:30	3.00	STG04	21		N		RU WIRELINE RIH TRIED TO SET 7" CBP. PERF GUN READING OPEN. PULLED OUT W/ GUN AND PLUG. HAD BAD POSITIVE SWITCH. CHANGED OUT SWITCH RIH PLUG AND GUN.
	16:30 18:00	1.50	STG04	21		P		RIH SET 7" CBP @ 8192' W/ 1100 PSI. PERFORATED STAGE # 4 FROM 8177' TO 8050'. ALL PERFS CORRELATED TO PERFORATORS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 9/19/2014. 18 NET FT. 54 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1100 PSI. FINAL PRESSURE 1000 PSI. TURNED WELL OVER TO FRAC CREW.
	18:00 20:00	2.00	STG04	35		P		PRESSURE TEST @ 9650 PSI. OPENED UP WELL W/ 178 PSI. BREAK DOWN STAGE # 4 PERFS @ 1684 PSI, 3.3 BPM. TREATED PERFS W/ 11000 GALS 15% HCL ACID. FLUSHED TO BTM PERF 313 BBLs. ISIP 1409. F.G. .61. 5 MIN 1050 PSI, 10 MIN 849 PSI 15 MIN 726 PSI. PUMPED 4020 LBS 100 MESH IN 1/2 PPG STAGE AND 61505 LBS WHITE 30/50. IN .5#, 1#, 1.75# AND 2.5# STAGES. AVG RATE 70.3 BPM, MAX RATE 75.1 BPM. AVG PRESS 2676, MAX PRESS 3075. I.S.I.P. 1843 PSI. F.G. .660. SHUT WELL IN. 2756 BBLs TO RECOVER. SHUT IN WELL. CLOSED AND LOCKED FRAC VALVES, CLOSED CSG VALVE AND INSTALLED NIGHT CAPS. DRAINED EQUIPMENT SDFN.
2/24/2016	6:00 7:30	1.50	STG05	28		P		CREW TRAVEL. HELD SAFETY MEETING ON RIGGING UP WIRELINE. FILLED OUT AND REVIEWED JSA.
	7:30 9:30	2.00	STG05	21		P		RU WIRELINE RIH SET 7" CBP @ 7910" W/ 200 PSI. PERFORATED STAGE # 5 FROM 7895' TO 7680'. ALL PERFS CORRELATED TO PERFORATORS RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 9/19/2014. 20 NET FT. 60 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 200 PSI. FINAL PRESSURE 200 PSI. TURNED WELL OVER TO FRAC CREW
	9:30 12:00	2.50	STG05	35		P		ARRIVED ON LOCATION STARTED RQUIPMENT. PRESSURE TEST @ 9510 PSI. OPENED UP WELL W/ 510 PSI. BREAK DOWN STAGE # 5 PERFS @ 2711 PSI, 9.4 BPM. TREATED PERFS W/ 11000 GALS 15% HCL ACID. FLUSHED TO BTM PERF 303 BBLs. ISIP 1682. F.G. .65. 5 MIN 1592 PSI, 10 MIN 1458 PSI 15 MIN 1395 PSI. PUMPED 4000 LBS 100 MESH IN 1/2 PPG STAGE AND 104415 LBS WHITE 30/50. IN .5#, 1#, 1.75# AND 2.5# STAGES. AVG RATE 73.3 BPM, MAX RATE 73.8 BPM. AVG PRESS 2616, MAX PRESS 2929. I.S.I.P. 1895 PSI. F.G. .676. SHUT WELL IN. 3438 BBLs TO RECOVER. SHUT IN WELL
	12:00 13:00	1.00	RDMO	02		P		RD WIRELINE AND STARTED RIGGING DOWN FRAC EQUIPMENT

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	13:00 13:05	0.08	FB	17		P		OPENED WELL ON 12/64 CHOKE. 1175 PSI
	13:05 15:00	1.92	RDMO	02		P		FINISHED RIGGING DOWN FRAC EQUIPMENT
	15:00 6:00	15.00	FB	19		P		OPENED WELL @ 13:00 1175 ON 12 CHOKE
								500 PSI ON 14/64 CHOKE RECOVERED 0 MCF, 0 BBLS OIL, 577 BBLS H2O.
2/25/2016	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON FLOWBACK PROCEDURES. FILLED OUT JSA.
	6:30 6:00	23.50	FB	19		P		300 PSI ON 24/64 CHOKE RECOVERED 0 MCF, 207 BBLS OIL, 606 BBLS H2O.
2/26/2016	6:00 6:30	0.50	FB	28		P		CREW TRAVEL HELD SAFETY MEETING ON FLOWBACK PROCEDURES. FILLED OUT AND REVIEWED JSA.
	6:30 6:00	23.50	FB	19		P		90 PSI ON 40/64 CHOKE RECOVERED 0 MCF (FLARING GAS), 508 BBLS OIL, 359 BBLS H2O.
2/27/2016	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	16		P		OPENED WELL TO FLOW BACK TANK. FULL 2" VALVE. ND TOP HCR VALVE AND GOAT HEAD. WELL 0 PSI. FLOWING TO FLOW BACK TANK @ 10 BBLS HOUR. ND HCR VALVE NU AND TESTED 5K BOP.
	11:00 12:00	1.00	WOR	06		P		PUMPED 200 BBLS 10# BRINE. MAX PRESSURE 700 PSI @ 5.5 BPM. WELL DIED.
	12:00 14:30	2.50	WOR	39		P		RIH W/ 5 3/4" NO-GO, 2-JTS 2 7/8 L-80 EUE TBG, 5 3/4" PBGA, 2-2" 2 7/8 N-80 TBG SUBS, MECH S.N., 40' 2 7/8 X2 1/4" PUMP BARREL, 4' 2 7/8 N-80 TBG SUB, 4-JTS 2 7/8 L-80 EUE TBG, 7" KLX TAC, 224-JTS 2 7/8 L-80 EUE TBG. SET TAC @ 7335', SN @ 7513', EOT @ 7616'. LANDED TBG W/ 6' TBG SUB AND HANGER.
	14:30 16:00	1.50	WOR	16		P		NIPPLE DOWN BOPE, AND 7" FRAC VALVE, REMOVED 6' SUB AND HANGER LANDED TBG ON B-FLAGE NU WELLHEAD AND FLOWLINE, SHUT IN TBG LEFT CSG FLOWING TO TREATER ON 24/64 CHOKE.
	16:00 17:00	1.00	RDMO	02		P		RD RIG. CLEANED LOCATION. PARKED RIG. SDFD.
2/28/2016	6:00 7:30	1.50	MIRU	28		P		CREW TRAVEL HELD SAFETY MEETING ON RIGGING UP CO-ROD RIG. FILLED OUT AND REVIEWED JSA.
	7:30 9:30	2.00	INARTLT	06		P		CSG 250 PSI ON 24/64 CHOKE, 550 TSIP. PUMPED 50 BBLS 2% KCL DOWN TBG. TBG STILL TRY TO FLOW, DROPPED STANDING VALVE. PUMPED 20 BBLS 10# BRINE DOWN TBG, 10 GAL CORROSION INHIBITOR, 30 BBLS 10# BRINE
	9:30 12:00	2.50	INARTLT	39		P		RIH W/ 2 1/4" PLUNGER W/ J-SLOT CONNECTOR FOR STANDING VALVE, 40' 1 1/2" POLISH ROD, 3' STABILIZER SUB, ON-OFF TOOL, 1400'-16/16, 4150'-15/16, 975'-16/16, 853'-17/16. SPACED OUT ROD W/ 1-8', 1-6' AND 1-2'X1" SUBS. PU POILSH ROD.
	12:00 12:30	0.50	INARTLT	06		P		FILLED TBG W/ 3 BBLS. PRESSURE AND STROKE TEST @ 1000 PSI HELD.
	12:30 15:00	2.50	RDMO	02		P		RD CO-ROD RIG. SLIDE IN PUMPING UNIT, PUT WELL ON PRODUCTION.
2/29/2016	6:00 13:00	7.00	SITEPRE	18		P		HEAT AND TRANSFER 80 BBLS FROM FLOWBACK TANKS.

Fairclough 4-20 C4 Drillout Summary Procedure

- POOH with rods, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- Pick up rock bit, and run in hole to drill up (3) 7" CBPs @ 7,910', 8,162' and 8,302' and (1) 5" CBPs @ 8,645'. Leaving (2) 5" CBPs w/ cmt and sand on top. Note top perf BELOW plug is @ 8,846'.
- Pull out of hole with work string and rock bit.
- RIH w/ production tubing and rods according to WBD.
- Clean location and resume production.

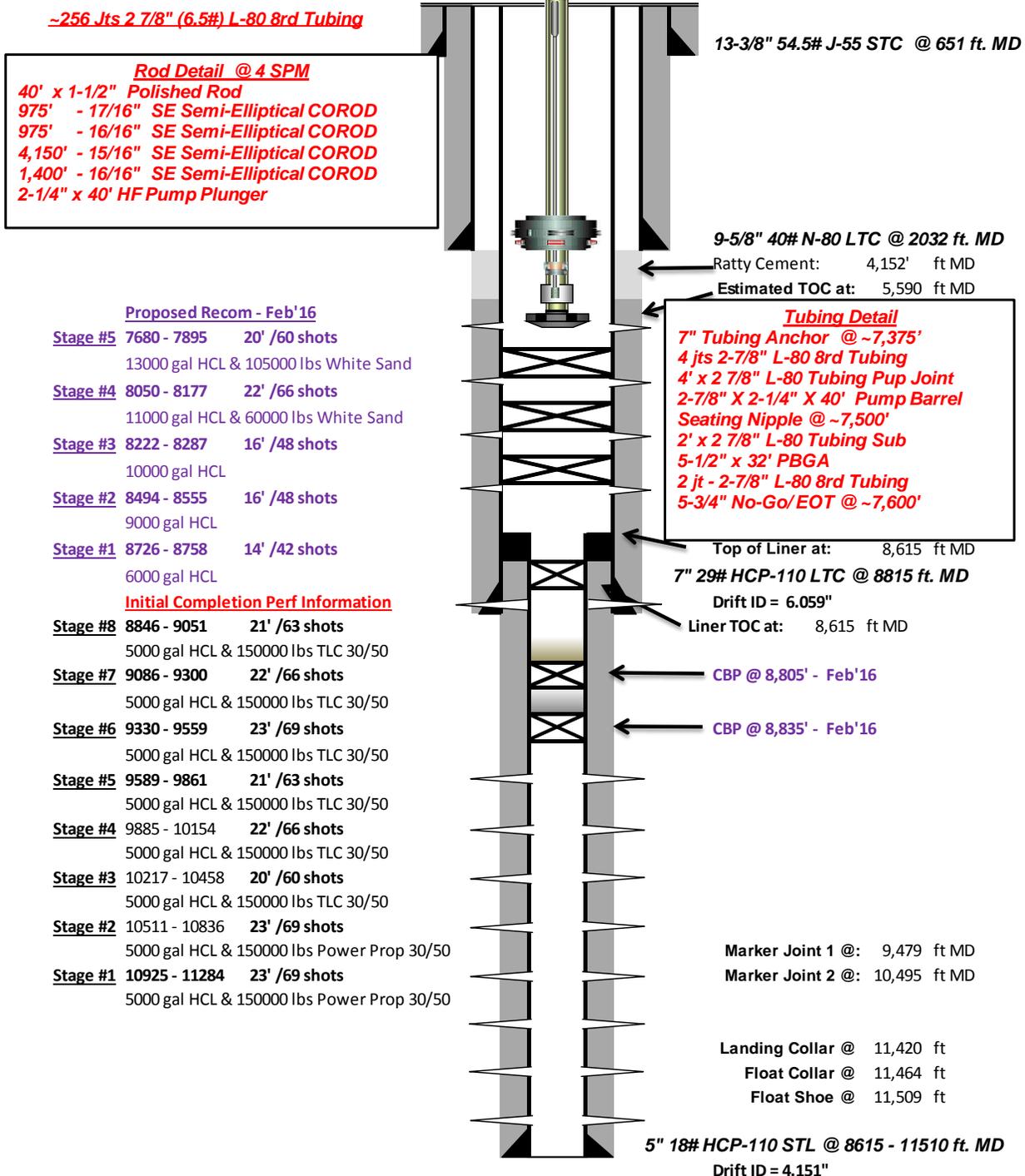
CURRENT WBD:



Proposed RECOM Pumping Schematic

Well Name: **Fairclough 4-20C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°12'31.077" N Long: 110°21'51.559" W**
 Producing Zone(s): **Wasatch**

Last Updated: **1/19/2016**
 By: **FondrenTomova**
 TD: **11,509**
 API: **4301352851**
 AFE: **-**



PROPOSED WBD:



Proposed RECOM Pumping Schematic

Well Name: **Fairclough 4-20C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40°12'31.077" N Long: 110°21'51.559" W**
 Producing Zone(s): **Wasatch**

Last Updated: **8/4/2016**
 By: **Fondren/Walt**
 TD: **11,509**
 API: **4301352851**
 AFE: **-**

~258 Jts 2 7/8" (6.5#) L-80 8rd Tubing

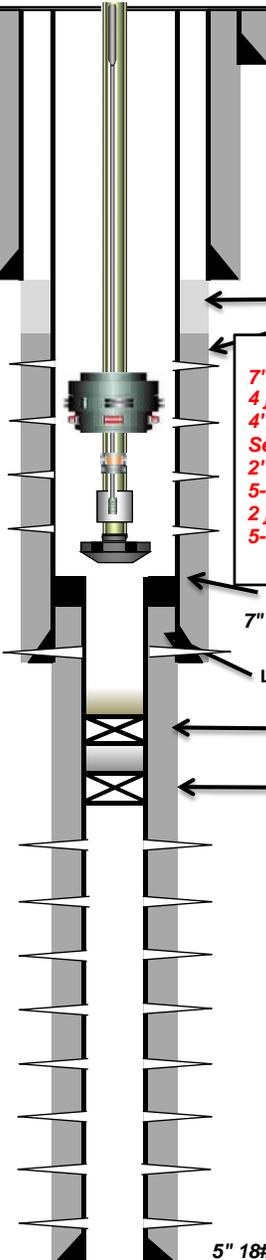
Rod Detail @ 4 SPM
 40' x 1-1/2" Polished Rod
 1,753' - 17/16" SE Semi-Elliptical COROD
 975' - 16/16" SE Semi-Elliptical COROD
 4,150' - 15/16" SE Semi-Elliptical COROD
 1,400' - 16/16" SE Semi-Elliptical COROD
 2-1/4" x 40' HF Pump Plunger

Proposed Recom - Feb'16

Stage #5	7680 - 7895	20' /60 shots
	13000 gal HCL & 105000 lbs White Sand	
Stage #4	8050 - 8177	22' /66 shots
	11000 gal HCL & 60000 lbs White Sand	
Stage #3	8222 - 8287	16' /48 shots
	10000 gal HCL	
Stage #2	8494 - 8555	16' /48 shots
	9000 gal HCL	
Stage #1	8726 - 8758	14' /42 shots
	6000 gal HCL	

Initial Completion Perf Information

Stage #8	8846 - 9051	21' /63 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #7	9086 - 9300	22' /66 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #6	9330 - 9559	23' /69 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #5	9589 - 9861	21' /63 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #4	9885 - 10154	22' /66 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #3	10217 - 10458	20' /60 shots
	5000 gal HCL & 150000 lbs TLC 30/50	
Stage #2	10511 - 10836	23' /69 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50	
Stage #1	10925 - 11284	23' /69 shots
	5000 gal HCL & 150000 lbs Power Prop 30/50	



13-3/8" 54.5# J-55 STC @ 651 ft. MD

9-5/8" 40# N-80 LTC @ 2032 ft. MD
 Ratty Cement: 4,152' ft MD
 Estimated TOC at: 5,590 ft MD

Tubing Detail
 7" Tubing Anchor @ ~8,277'
 4 jts 2-7/8" L-80 8rd Tubing
 4' x 2 7/8" L-80 Tubing Pup Joint
 Seating Nipple @ ~8,412'
 2' x 2 7/8" L-80 Tubing Sub
 5-1/2" x 32' PBGA
 2 jt - 2-7/8" L-80 8rd Tubing
 5-3/4" No-Go/EOT @ ~8,515'

Top of Liner at: 8,615 ft MD
7" 29# HCP-110 LTC @ 8815 ft. MD
 Drift ID = 6.059"
 Liner TOC at: 8,615 ft MD

CBP @ 8,805' - Feb'16
CBP @ 8,835' - Feb'16

Marker Joint 1 @: 9,479 ft MD
Marker Joint 2 @: 10,495 ft MD

Landing Collar @ 11,420 ft
Float Collar @ 11,464 ft
Float Shoe @ 11,509 ft

5" 18# HCP-110 STL @ 8615 - 11510 ft. MD
 Drift ID = 4.151"

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: Fairclough 4-20C4
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013528510000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5138 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1638 FNL 1606 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 20 Township: 03.0S Range: 04.0W 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 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: 8/16/2016	<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.

Drilled out CBP's @ 7910', 8192', 8302' and 8645'. Leaving CBP's @ 8835' with 15' cmt on top and 8805'. Open perf's: 7680'-8758' (Feb 2016 Recom). In September, squeezed Stage 4 (8050'-8177') with 200 sx Neat G cmt after swabbing perfs. See attached for details.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 October 21, 2016

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5138	TITLE Consultant
SIGNATURE N/A	DATE 10/12/2016	

CENTRAL DIVISION

ALTAMONT FIELD
FAIRCLOUGH 4-20C4
FAIRCLOUGH 4-20C4
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
	13:00 13:05	0.08	FB	17		P		OPENED WELL ON 12/64 CHOKE. 1175 PSI
	13:05 15:00	1.92	RDMO	02		P		FINISHED RIGGING DOWN FRAC EQUIPMENT
	15:00 6:00	15.00	FB	19		P		OPENED WELL @ 13:00 1175 ON 12 CHOKE
								500 PSI ON 14/64 CHOKE RECOVERED 0 MCF, 0 BBLS OIL, 577 BBLS H2O.
2/25/2016	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON FLOWBACK PROCEDURES. FILLED OUT JSA.
	6:30 6:00	23.50	FB	19		P		300 PSI ON 24/64 CHOKE RECOVERED 0 MCF, 207 BBLS OIL, 606 BBLS H2O.
2/26/2016	6:00 6:30	0.50	FB	28		P		CREW TRAVEL HELD SAFETY MEETING ON FLOWBACK PROCEDURES. FILLED OUT AND REVIEWED JSA.
	6:30 6:00	23.50	FB	19		P		90 PSI ON 40/64 CHOKE RECOVERED 0 MCF (FLARING GAS), 508 BBLS OIL, 359 BBLS H2O.
2/27/2016	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	16		P		OPENED WELL TO FLOW BACK TANK. FULL 2" VALVE. ND TOP HCR VALVE AND GOAT HEAD. WELL 0 PSI. FLOWING TO FLOW BACK TANK @ 10 BBLS HOUR. ND HCR VALVE NU AND TESTED 5K BOP.
	11:00 12:00	1.00	WOR	06		P		PUMPED 200 BBLS 10# BRINE. MAX PRESSURE 700 PSI @ 5.5 BPM. WELL DIED.
	12:00 14:30	2.50	WOR	39		P		RIH W/ 5 3/4" NO-GO, 2-JTS 2 7/8 L-80 EUE TBG, 5 3/4" PBGA, 2-2" 2 7/8 N-80 TBG SUBS, MECH S.N., 40' 2 7/8 X2 1/4" PUMP BARREL, 4' 2 7/8 N-80 TBG SUB, 4-JTS 2 7/8 L-80 EUE TBG, 7" KLX TAC, 224-JTS 2 7/8 L-80 EUE TBG. SET TAC @ 7335', SN @ 7513', EOT @ 7616'. LANDED TBG W/ 6' TBG SUB AND HANGER.
	14:30 16:00	1.50	WOR	16		P		NIPPLE DOWN BOPE, AND 7" FRAC VALVE, REMOVED 6' SUB AND HANGER LANDED TBG ON B-FLAGE NU WELLHEAD AND FLOWLINE, SHUT IN TBG LEFT CSG FLOWING TO TREATER ON 24/64 CHOKE.
	16:00 17:00	1.00	RDMO	02		P		RD RIG. CLEANED LOCATION. PARKED RIG. SDFD.
2/28/2016	6:00 7:30	1.50	MIRU	28		P		CREW TRAVEL HELD SAFETY MEETING ON RIGGING UP CO-ROD RIG. FILLED OUT AND REVIEWED JSA.
	7:30 9:30	2.00	INARTLT	06		P		CSG 250 PSI ON 24/64 CHOKE, 550 TSIP. PUMPED 50 BBLS 2% KCL DOWN TBG. TBG STILL TRY TO FLOW, DROPPED STANDING VALVE. PUMPED 20 BBLS 10# BRINE DOWN TBG, 10 GAL CORROSION INHIBITOR, 30 BBLS 10# BRINE
	9:30 12:00	2.50	INARTLT	39		P		RIH W/ 2 1/4" PLUNGER W/ J-SLOT CONNECTOR FOR STANDING VALVE, 40' 1 1/2" POLISH ROD, 3' STABILIZER SUB, ON-OFF TOOL, 1400'-16/16, 4150'-15/16, 975'-16/16, 853'-17/16. SPACED OUT ROD W/ 1-8', 1-6' AND 1-2'X1" SUBS. PU POILSH ROD.
	12:00 12:30	0.50	INARTLT	06		P		FILLED TBG W/ 3 BBLS. PRESSURE AND STROKE TEST @ 1000 PSI HELD.
	12:30 15:00	2.50	RDMO	02		P		RD CO-ROD RIG. SLIDE IN PUMPING UNIT, PUT WELL ON PRODUCTION.
2/29/2016	6:00 13:00	7.00	SITEPRE	18		P		HEAT AND TRANSFER 80 BBLS FROM FLOWBACK TANKS.
8/11/2016	7:30 9:00	1.50	MIRU	28		P		MI CO ROD RIG, TGSM & JSA (CO ROD OPERATIONS)
	9:00 10:30	1.50	MIRU	01		P		SPOT IN AND RU, ATTEMPT TO RETRIEVE STANDING VALVE W/ NO SUCCESS.
	10:30 13:00	2.50	UNINARTLT	03		P		LAY DOWN P ROD AND SUBS, POOH W/ 853' 17/16, 975' 16/16, 4150' 15/16, 1400' 16/16, LAY DOWN ON/OFF TOOL, 3' STABILIZER SUB, P ROD AND PLUNGER.
	13:00 15:00	2.00	WLWORK	21		P		MIRU WIRE LINE, RIH AND PEFORATE JOINT ABOVE PUMP ASSEMBLY. RD WIRE LINE AND CO ROD RIG. FLUSH TUBING W/ 70 BBLS.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	15:00 20:00	5.00	MIRU	01		P		MIRU RIG, INSTALL PUP JT UNDER HANGER, NU BOP AND HYDRILL TEST FLANGE, RU WORK FLOOR AND TUBING EQUIPMENT, RELEASE TAC, RE LAND TUBING W/ HANGER. SECURE WELL CT (BARRIERS HANGER, PIPE RAMS, TIW VALVE W/ NIGHT CAP.) CASING SENT TO FACILITIES
8/12/2016	6:00 7:30	1.50	PRDHEQ	39		P		TRAVEL TO LOC HSM= TESTING AND SCANNING
	7:30 17:30	10.00	PRDHEQ	39		P		FWP= 50 PSI, OPEN WELL MIRU TEST UNIT TEST BOPS 4000 PSIRD TESTERS MIRU SCANNERS POOH SCANNING TUBING POOH W/ 228 JNTS (192 YB, 32 BB, 4 RB, ALL DUE TO ROD WEAR)RD SCANNERS REPAIR RAM ON SLIPS, PU 6" BIT TALLEY AND RIH STOP ABOVE TOP PERF EOT @ 7641', (TOP PERF @ 7680') STAB TIW W/ NIGHT CAP, CLOSE AND LOCK PIPE RAMS, CLOSE VALVES W/ BULL PLUG, RU RIG PUMPS, PU PWR SWVL HANG IN DERRICK SDFN.
8/13/2016	6:00 7:30	1.50	WOR	10		P		TRAVEL TO LOC HSM= CIRC AND DRILL PLUGS
	7:30 17:34	10.07	WOR	10		P		FWP= 50 PSI OPEN WELL TO FBT RIH TAG FILL @ 7906' EST CIRC W/ 340 BBLS, C/O AND DRILL THRU CBP @ 7910' IN 25 MIN WITH A GOOD KICK OF GAS AND OILCIRC CLEAN CONTINUE TO RIH TAG @ 8180' EST CIRC C/O TO CBP @ 8192' DRILL THRU PLUG IN 40 MIN W/ INCREASE IN GAS AND OIL CIRC CLEAN AND GAS OUT PUMP 20 BBLS TO CONTROL TUBING, CONTINUE TO RIH TAG FILL AT 8295' EST CIRC C/O TO PLUG @ 8302' DRILL PLUG IN 40 MIN W/ NO INCREASE CIRC CLEAN CONTINUE TO RIH TAG @ 8610' CLEAN OUT TO L/T @ 8615' CIRC CLEAN CONTROL TUBING W/ 15 BBLS KCL HANDG BACK PWR SWVL POOH W/ 6' BIT LD BIT pu 4-1/8" BIT AND BIT SUB PU 8 JNTS 2-3/8" X-OVER RIH W/ 72 JNTS 2-7/8" CLOSE AND LOCK PIPE RAM SSTAB TIW W/ NIGHT CAP, CLOSE CSG VALVES W/ BULL PLUG OPEN CSG TO SALES SDFN
8/14/2016	6:00 7:30	1.50	PRDHEQ	10		P		TRAVEL TO LOC HSM= RUN TUB CIRC DRILL
	7:30 22:00	14.50	PRDHEQ	10		P		FWP 60 PSI OPEN WELL TO FBT TUBING FLOWING NU PUMP PUMP DOWN TUB W/ 140BBLS KCLTO CONTROL GET BRINE PUMP 20 BBLS DOWN TUBING ALLOW CSG TO FLOW CONTINUE TO RIH TAG @ 8614' EST CIRC DRILL REMAINING 7" CBP LOST CIRC CONTINUE INTO LINER TAG 5" CBP @ 8780' PULL OUT OF LINER NU HOT OILER TO FLUSH TUB, BIT PLUGGED CALL OUT W/L RIH TAG @ 8265' PUNCH HOLES AT 8260' RD W/L FLUSH TUB CONTINUE TO POOH W/ BIT, RU HYDRO TESTERS PU BHA RIH HYDRO TESTING 60 JNTS EOT @ 2280'SHUT AND LOCK PIPE RAMS, CLOSE AND BULL PLUG CSG VALVE, OPEN FLOW LINE TO SALES, INSTALL TIW W/ NIGHT CAP SDFW
8/16/2016	7:00 8:30	1.50	PRDHEQ	25		P		TRAVEL TO LOC, HSM= HYDRO TRESTING, WELL CONTROL
	8:30 19:00	10.50	PRDHEQ	25		P		FWP= 50 PSI OPEN WELL TO FBT TRY TO CONTROL CSG W/25 BBLS BRINE, CONTROL TUB W/ 25 BBLS BRINE RD HYDROTESTERS CONTINUE TO RIH W/ PRODUCTION TUBING LETTING CSG FLOW TO FBT, KILL CSG W/ 75 BBLS BRINE SET TAC RD FLOOR AND TUBING EQUIPND BOPS LAND TUBING NU WELLHEAD RD RIG (MOVE RIG TO RETZKI 1-25C4 AND RU)MIRU CO ROD RIG PU PUMP KILL TUBING W/ 25 BBLS BRINEAND ROD CHEMICAL RIH W/ PUMP AND CO ROD TO SPLICE WELD SPLICE CLOSE CSG VALVE W/ BULL PLUG CLOSE BOP AND LOCK SDFN
8/17/2016	6:47 7:30	0.72	INARTLT	03		P		TRAVEL TO LOC HSM= WELL CONTROL, COROD SAFETY
	7:30 10:30	3.00	INARTLT	03		P		CONTINUE TO RIH SPACE OUT COROD MAKE CUT AND WELD SPACE OUT PUMP CLAMP POLISH ROD FILL TUBING PRESS TEST TO 1000 PSI RD COROD SLIDE ROLOFLEX HANG RODS TURN WELL OVER TO PRODUCTION

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
9/14/2016	6:00 7:30	1.50	UNINARTL T	28		P		CT TGSM & JSA (CO ROD OPERATIONS)
	7:30 11:30	4.00	UNINARTL T	39		P		MI SLIDE UNIT, RU CO ROD RIG, WORK OFF SEAT, FLUSH TBG, L/D P ROD AND SUBS, POOH W/ 1753' 17/16, 975 16/16, 4150 15/16, 1400' 16/16, L/D AND RETIRE 2 1/2" X 1 3/4" X 39' ACCELERATED RHBC. RDMO W/ CO ROD.
	11:30 17:00	5.50	UNINARTL T	16		P		MIRU RIG, NU AND TEST BOPS AS PER PROCEDURE, RU WORK FLOOR AND TBG EQUIPMENT. RELEASE TAC, POOH W/ 253 JTS 2 7/8", TAC, 4 JTS, L/D BHA.
	17:00 20:00	3.00	WOR	39		P		PUMU AND RIH W/ 7" KLX RBP, RET HEAD, PUP JT, 7" HD PACKER. 200 JTS 2 7/8". LAND ON DONUT (BARRIER 1,) SHUT AND LOCK PIPE RAMS (BARRIER 2) INSTALL AND SHUT TIW VALVE AND NIGHT CAP (BARRIERS 1 & 2) SHUT CASING VALVE AND NIGHT CAP (BARRIERS 1 & 2) LEAVE CASING TO FACILITIES.
9/15/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (SWABBING PROCEDURES)
	7:30 13:00	5.50	WOR	20		P		CIH W/ 52 JTS, PU 10' SUBS SET PLUG @ 8195' PU OFF RBP, SET PACKER FILL TUBING W/ A BBL INJECT INTO LEAK 1/4 BPM AT 800 PSI, MOVE TOOLS DOWN 1 JT, RE TEST WOULD PRESSURE UP TO 1000 PSI WOULD BLEED OFF QUICKLY TO 50 LBS, PRESSURE UP AGAIN SHUT TIW VALVE TO ISOLATE PUMP, PUMP HELD GOOD, BLED OFF LINES, INSTALL NIGHT CAP PRESSURE AT 50 PSI. RELEASE TOOLS POOH ABOVE PERFS, SET PLUG W/ JT# @ , PU SET PACKER, FILL W/ A BBL TEST TO 1000 PSI, PULL ABOVE PERFS TO 7560' SET PLUG PU SET PACKER TEST TOOLS TO 1000 PSI GOOD TEST TIH TAG LINER TOP25' OUT JT# 265 @ 8638'. SLM POOH SET PLUG W/ JT# 252 UP 6', PU SET PACKER TESTED GOOD @ 1000 PSI. SET PACKER W/ JT# 246 UP 6'. CORRELATED DEPTH 8020'
	13:00 19:00	6.00	WOR	38		P		RU SWAB EQUIPMENT, TEST LUBE TO 800 PSI, MAKE 12 RUNS RECOVERY 147 BBLS, INITIAL FLUID LEVEL SURFACE, WELL STARTED FLOWING 100 BBLS PER HOUR. TOT FLOW BACK CREW.
	19:00 6:00	11.00	FB	23		P		CURRENT PRESSURE 0 RECOVERED TTL BBLS FROM ZONE 4 SWABBING AND FLOWING. OIL CUT THROUGH OUT ESTIMATED 3%.
9/16/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (SWABBING PROCEDURES)
	7:30 8:30	1.00	WOR	39		P		TOP KILL TUBING, RELEASE PACKER, RIH RETRIEVE RBP, CIH TO 3' OUT JT# 255 @ 8315'. SET PLUG, PU SET PACKER, TEST TOOLS TO 1000 PSI. PULL OUT TO JT 251' PU 26' SUBS, PU 6' SET PACKER @ 8196'.
	8:30 9:00	0.50	WOR	38		P		MAKE 3 CONS SWAB RUNS RECOVERING BBLS INITIAL FLUID LEVEL, FINAL FLUID LEVEL (SLOWING) SURFACE, OIL CUT @ 3%.
	9:00 9:30	0.50	WOR	38		P		RU & TEST LUBE, MAKE 3 CONS RUNS RECOVER 14 BBLS. INITIAL FLUID LEVEL SRFACE , ON 3RD RUN POOH SWIVEL ON SINKER BARS PARTED.
	9:30 18:30	9.00	WOR	58		P		WAIT ON PARTS, TIE ROPE SOCKET, RIH W/ 1 3/4" GPL AND 2 5/16" OVER SHOT, ON SAND LINE W/ DEPTH OMETER. TAG @ 8330' POOH RIG DOWN SWAB, RELEASE PACKER POOH W/ SUBS, JTS AND L/D PACKER SECURE WELL W/ 2 BARRIERS BLIND RAMS, B FLANGE. LEAVE CASING TO FACILITIES.
9/17/2016	6:00 7:30	1.50	BL	28		P		TGSM & JSA (BRAIDED LINE OPERATIONS)
	7:30 11:00	3.50	BL	52		P		MIRU CUTTERS BRAIDED LINE, RIH W/ WT BARS, JARS, SPANGS, 2 5/16" OVERSHOT W/ 1 3/4" GPL, W/ 6" SKIRT. LATCH ON FISH @ 8305' BRAIDED LINE DEPTH, PULL OVER 1300# POOH L/D FISH (EVERYTHING RECOVERED INCLUDING SWAB CUP) RDMOL W/ BRAIDED LINE UNIT.
	11:00 13:30	2.50	WOR	39		P		RIH W/ 7" HD PACKER 5 7/8" O.D 2.5 I.D, 1 JT 2 7/8", +45 PSN (2 1/4" I.D, 250 JTS 2 7/8" 8RD, 22' SUBS, SET PACKER @ 8196'. RU AND TEST SWAB LUBE. SWAB MANDRILL 2 5/16" O.D

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	13:30 13:30	0.00	WOR	38		P		MAKE 25 CONSECUTIVE RUNS INITIAL FLUID LEVEL @ 200' FINAL FLUID LEVEL @ 2800'. RECOVERED 187 BBLS FLUID. FINAL OIL CUT 3% VERY GASY BETWEEN RUNS. SHUT & LOCK PIPE RAMS BARRIER 1, SHUT AND NIGHT CAP CASING VALVE BARRIER 2, SHUT AND NIGHT CAP TIW VALVE.
9/18/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (SWABBING OPERATIONS)
	7:30 13:30	6.00	WOR	38		P		TSIP @ 860 PSI, BLED DOWN 3 BBLS OIL AND LOTS OF GAS. MAKE 27 CONSECUTIVE RUNS INITIAL FLUID LEVEL @ SURFACE FINAL FLUID LEVEL @ 2800'. RECOVERED 202 BBLS FLUID. AVERAGE OIL CUT 6%.
	13:30 17:30	4.00	WOR	38		P		RELEASE PACKER TUBING STARTED TO FLOW, TOP KILL TBG, RIH RETRIEVE RBP, RIH SET RBP @ 8585' W/ JT # 264 PU SET PACKER TEST TOOLS TO 1000 PSI, RELEASE PACKER POOH SET PACKER W/ 260 JTS AND 4' PUP JT @ 8,464'. RU AND TEST LUBE, MAKE 3 CONSECUTIVE RUNS RECOVER 22 BBLS STARTED TO FLOW. FLOW 75 BBLS FLUID TO FLOW BACK TANK. 15% OIL CUT. TURN TO FACILITIES AND TOT FLOW BACK CREW.
9/19/2016	6:00 6:00	24.00	FB	23		P		FLOW WELL AS INSTRUCTED
9/20/2016	7:00 8:30	1.50	WOR	28		P		CT TGSM & JSA (POOH W/ TOOLS)
	8:30 12:00	3.50	WOR	39		P		KILL WELL W/ 30 BBLS BRINE, RELEASE PACKER, RETRIEVE PLUG @ 8585', POOH W/ 263 JTS, PSN, 1 JT, PACKER AND PLUG.
	8:30 18:00	9.50	WLWORK	26		P		MIRU WIRE LINE, PRESSURE TEST LUBE 250 LOW AND 3000 HIGH. RIH W/ 7" WCS CBP SET @ 8185' AND WIRE LINE CCR @ 8035' RDMOL W/ WIRE LINE.
	18:00 20:00	2.00	WOR	39		P		RIH W/ STINGER, 1 JT, PSN, 173 JTS 2 7/8" 8RD EOT @ 5580, LAND DONUT 1 BARRIER, PIPE RAMS 2ND BARRIER, SHUT CASING VALVE INSTALL BULL PLUG, INSTALL AND SHUT TIW VALVE.
9/21/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (PUMPING CEMENT)
	7:30 8:30	1.00	WOR	39		P		CIH W/ 63 JTS 2 7/8" SPACE OUT ESTABLISH INJECTION RATE DOWN CASING 2.2 BPM @ 500 PSI, NO COMMUNICATION UP TUBING, ESTABLISH INJECTION RATE 3.8 BPM @ 680 PSI. NO COMMUNICATION UP CASING.RU PROPETRO CEMENTING EQUIPMENT.
	8:30 12:30	4.00	WOR	06		P		MIX AND PUMP 200 SX CEMENT W/ 2% CALCIUM CHLORIDE, AND 200 SX NEAT G 15.8 PPG FLUSH @ 3.8 BPM FLUSH AND LEAVE 10 BBLS IN TUBING, WALK IN ADDITIONAL 4 BBLS WALKED UP TO 1000 PSI, STING OUT ATTEMPT TO REVERSE OUT STARTED INJECTION 4 BPM @ 1200 PSI, WOULD NOT CIRCULATE, ATTEMPT TO GET MOVING DOWN TUBING TO 3000 PSI, POOH W/ 6 JTS RE TRY TO GET MOVING W/ NO SUCCESS, RD CEMENT EQUIPMENT. POOH W/ TUBING LAY DOWN 39 JTS W/ CEMENT.
	12:30 16:00	3.50	WOR	39		P		PUMU & RIH W/ 6" BIT, BIT SUB, 1 JT, PSN, 229 JTS 2 7/8" EOT @ 7500'-. SHUT AND LOCK PIPE RAMS, INSTALL AND SHUT TIW VALVE W/ NIGHT CAP. SHUT CASING VALVE W/ NIGHT CAP CREW TRAVEL.
9/22/2016	6:00 6:00	24.00	WOR	28		P		NO ACTIVITY QUARTERLY SAFETY MEETING
9/23/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (DRILLING OPERATIONS)
	7:30 15:00	7.50	WOR	72		P		RIH TAG AND RU POWER SWIVEL W/ JT# 248, BREAK CIRCULATION. DRILL UP CCR AND CEMENT TO CBP W/ 15' OUT JT# 252. CIRCULATE CLEAN
	15:00 19:00	4.00	WOR	39		P		RD POWER SWIVEL, POOH W/ 251 JTS, PSN, 1 JT BIT SUB & 6" BIT. BARRIERS AS FOLLOWS: SHUT AND LOCK BLIND RAMS, SHUT AND NIGHT CAP CASING VALVES. CT
9/24/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (RIH W/ PACKER)

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	7:30 19:00	11.50	WOR	39		P		RIH W/ 7" PACKER 1 JT, PSN, 245 JTS SET PACKER @ 5000', RU SWAB EQUIPMENT, MAKE 5 CONSECUTIVE RUNS RECOVERING 48 BBLS, FLUID LEVEL @ PSN, MAKE 4 HOURLY RUNS RECOVERING 9.5 BBLS IN 4 HOURS. RIG DOWN SWAB. ATTEMPT TO PRESSURE TEST TO 1000 PSI. LOST 240 PSI IN 1 MINUTE. BROKE DOWN @ 3000 PSI ESTABLISH INJECTION RATE 1.3 BPM @ 2500 PSI. RELEASE PACKER POOH ABOVE PERFS. SHUT AND LOCK PIPE RAMS, INSTALL AND SHUT TIW VALVE W/ NIGHT CAP. SHUT CASING VALVE W/ NIGHT CAP CREW TRAVEL.
9/25/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (POOH W/ PACKER)
	7:30 11:00	3.50	WOR	39		P		COOH W/ TUBING L/D PACKER. MIRU WIRE LINE PRESSURE TEST LUBE (LEAKING THROUGH BLIND RAMS HELD 500 PSI)
	11:00 14:00	3.00	WLWORK	26		P		RIH W/ CCR ATTEMPT TO SET @ 8040' PARTIALLY SET. ATTEMPT TO WORK FREE W/ NO SUCCESS, PULL OUT OF ROPE SOCKET, POOH RD WIRE LINE.
	14:00 19:30	5.50	WOR	39		P		PUMU RIH W/ 5 3/4" O/S DRESSED W/ 2 3/4" GRAPPLE, 247 JTS 2 7/8", ENGAUGE FISH WORK FREE, SOOH W/ TBG. SHUT AND LOCK PIPE RAMS, INSTALL AND SHUT TIW VALVE W/ NIGHT CAP. SHUT CASING VALVE W/ NIGHT CAP CREW TRAVEL.
9/26/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (TRIPPING TUBING)
	7:30 9:30	2.00	WOR	39		P		COOH W/ TUBING, L/D CCL, WT BAR AND SETTING TOOL.
	9:30 14:30	5.00	WOR	39		P		RIH W/ STINGER 1 JT, PSN, 246 JTS STING IN @ 8040' ATTEMPT TO GET INJECTION RATE TO 4500 PSI W/ NO SUCCESS. RU SWAB MAKE 4 RUNS IFL SURFACE ENDING 1800, PU ON TUBING WASNT STUNG IN CHASE TO 8082'.
	14:30 16:00	1.50	WOR	39		P		POOH W/ STINGER, RIH W/ 6" BIT, BIT SUB, 1 JT, PSN, 233 JTS. SHUT AND LOCK PIPE RAMS, INSTALL AND SHUT TIW VALVE W/ NIGHT CAP. SHUT CASING VALVE W/ NIGHT CAP CREW TRAVEL.
9/27/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (DRILLING OPERATIONS)
	7:30 11:30	4.00	WOR	72		P		RIH TAG UP DRILL ON CCR FOR 15 MINUTES, PUSH TO CBP @ 8185'. CIRCULATE CLEAN, POOH W 6" BIT.
	11:30 13:30	2.00	WLWORK	26		P		MIRU WIRE LINE PRESSURE TEST LUBE, BLINDS LEAK PREFORM LOW TEST, RIH W/ KLX CCR, SET @ 8000', POOH RD WIRE LINE.
	13:30 20:30	7.00	WOR	39		P		RIH W/ STINGER 1 JT, PSN, 245 JTS SPACE OUT W/ 8' PUP JT, ATTEMPT TO ESTABLISH INJECTION RATE, PRESSURE UP TO 4000 PSI, RU SWAB MAKE 5 CONSECUTIVE SWAB RUNS, RECOVER 45 BBLS FLUID. MAKE 1 HOURLY RUN, HAD 206' FLUID ENTRY RECOVER 1 BBL. RD SWAB. SHUT AND LOCK PIPE RAMS, INSTALL AND SHUT TIW VALVE W/ NIGHT CAP. SHUT CASING VALVE W/ NIGHT CAP CREW TRAVEL.
9/28/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (SWABBING OPERATIONS)
	7:30 10:30	3.00	WOR	39		P		MAKE 1 SWAB RUN 4 BBLS FLUID ENTRY IN 12 HOURS, RD SWAB, POOH W/ STINGER.
	10:30 19:30	9.00	WOR	72		P		RIH W/ 6" BIT, BIT SUB, 1 JT, PSN, 245 JTS TAG @ 8000', RU SWIVEL BREAK CIRCULATION, DRILL UP CCR PUSH TO 8185' RU SWIVEL DRILL UP CCR REMAINS AND CBP PUSH TO LINER TOP @ 8615' RU SWIVEL W/ JT# 265 CLEAN UP PLUG REMAINS AT LINER TOP, CIRCULATE WELL CLEAN. PULL ABOVE PERFS. SHUT AND LOCK PIPE RAMS, INSTALL AND SHUT TIW VALVE W/ NIGHT CAP. SHUT CASING VALVE W/ NIGHT CAP CREW TRAVEL.
9/29/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (TRIPPING PROCEDURES)

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	7:30 15:30	8.00	WOR	39		P		BWD POOH W/ 6" BIT, PUMU & RIH W/ 4 1/8" BIT, BIT SUB, 9 JTS 2 3/8", X/O TO 2 7/8", RIH TAG LINER TOP @ 8615' ATTEMPT TO WORK THROUGH W/ NO SUCCESS. RU SWIVEL BREAK CIRCULATION, PUSH CBP TO PBTD @ 8805'. CIRCULATE WELL CLEAN. RD SWIVEL. POOH W/ 4 1/8" BIT (LAYING DOWN BHA)
	15:30 20:00	4.50	WOR	39		P		MIRU HYDROTESTER, PUMU & RIH W/ 5 3/4" SOLID NO-GO, 2 JTS 2 7/8", 5 1/2" PBGA, 2' PUP JT, 2' PUP JT, 40' PUMP BARRELL, RU HYDROTESTING UNIT AND START TESTING 4' PUP JT, 4 JTS, 7" BCS TAC, & 132 JTS 2 7/8" 8RD L-80 TUBING. INSTALL HANGER, SHUT AND LOCK PIPE RAMS, INSTALL AND SHUT TIW VALVE W/ NIGHT CAP. SHUT CASING VALVE W/ NIGHT CAP CREW TRAVEL.
9/30/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (HYDRO TESTING)
	7:30 12:00	4.50	WOR	39		P		BWD CIH HYDRO TESTING 120 JTS 2 7/8" 8RD TUBING, (252 JTS, TAC, 4 JTS, PUP JT, PUMP BBL, MECH S/N, 2-2', 5 1/2" PBGA, 2 JTS, 5 3/4" SOLID NO-GO) RIG DOWN HYDRO TESTER, SET TAC, TEMPORARY LAND TUBING, RD FLOOR, ND BOP, RE LAND TUBING, NU B FLANGE, INSTALL 3/8" CAP TUBE, MU FLOW LINES. SHUT IN TUBING W/ NIGHT CAP ON PUMP T. SEND CASING TO FACILITIES RDMOL TO 3-7 C4.
	12:00 16:00	4.00	WOR	18		P		FLUSH TUBING W/ 60 BBLs & 10 GAL INHIBITORS, DROP S/V ATTEMPT TO PUMP ON SEAT DID NOT SEAT. WAIT ON CO ROD TO FINISH @ 3-7 C4
	16:00 19:30	3.50	WOR	39		P		PU 5' X 2 1/4" PLUNGER, 1 1/2" X 40' P-ROD, STAB SUB, ON/OFF TOOL, STAB SUB, 1400' #6, 4135' #5, 966' #6, 1756' #7, SPACE OUT W/ 8', 2' X 1" SUBS AND 1 1/2" X 40' P ROD. SECURE WELL
10/1/2016	7:00 7:30	0.50	WOR	28		P		TGSM & JSA (SLIDING UNIT)
	7:30 10:30	3.00	RDMO	02		P		FILL AND TEST W/ A BBL, L/S TO 1000 PSI, RD SLIDE UNIT, NO TAG TOTP, HEAT AND TRANSFER FLOW BACK TANK.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: Fairclough 4-20C4
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		9. API NUMBER: 43013528510000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5138 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1638 FNL 1606 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 20 Township: 03.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/24/2016 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input checked="" type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Water isolation"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Please see attached operations summary of water isolation job.		
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 23, 2016
NAME (PLEASE PRINT) Erik Hauser	PHONE NUMBER 713 997-6717	TITLE Sr EHS Specialist
SIGNATURE N/A		DATE 12/15/2016

CENTRAL DIVISION

ALTAMONT FIELD
FAIRCLOUGH 4-20C4
FAIRCLOUGH 4-20C4
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
9/14/2016	6:00 7:30	1.50	UNINARTL T	28		P		CT TGSM & JSA (CO ROD OPERATIONS)
	7:30 11:30	4.00	UNINARTL T	39		P		MI SLIDE UNIT, RU CO ROD RIG, WORK OFF SEAT, FLUSH TBG, L/D P ROD AND SUBS, POOH W/ 1753' 17/16, 975 16/16, 4150 15/16, 1400' 16/16, L/D AND RETIRE 2 1/2" X 1 3/4" X 39' ACCELERATED RHBC. RDMO W/ CO ROD.
	11:30 17:00	5.50	UNINARTL T	16		P		MIRU RIG, NU AND TEST BOPS AS PER PROCEDURE, RU WORK FLOOR AND TBG EQUIPMENT. RELEASE TAC, POOH W/ 253 JTS 2 7/8", TAC, 4 JTS, L/D BHA.
	17:00 20:00	3.00	WOR	39		P		PUMU AND RIH W/ 7" KLX RBP, RET HEAD, PUP JT, 7" HD PACKER. 200 JTS 2 7/8". LAND ON DONUT (BARRIER 1,) SHUT AND LOCK PIPE RAMS (BARRIER 2) INSTALL AND SHUT TIW VALVE AND NIGHT CAP (BARRIERS 1 & 2) SHUT CASING VALVE AND NIGHT CAP (BARRIERS 1 & 2) LEAVE CASING TO FACILITIES.
9/15/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (SWABBING PROCEDURES)
	7:30 13:00	5.50	WOR	20		P		CIH W/ 52 JTS, PU 10' SUBS SET PLUG @ 8195' PU OFF RBP, SET PACKER FILL TUBING W/ A BBL INJECT INTO LEAK 1/4 BPM AT 800 PSI, MOVE TOOLS DOWN 1 JT, RE TEST WOULD PRESSURE UP TO 1000 PSI WOULD BLEED OFF QUICKLY TO 50 LBS, PRESSURE UP AGAIN SHUT TIW VALVE TO ISOLATE PUMP, PUMP HELD GOOD, BLED OFF LINES, INSTALL NIGHT CAP PRESSURE AT 50 PSI. RELEASE TOOLS POOH ABOVE PERFS, SET PLUG W/ JT# @ , PU SET PACKER, FILL W/ A BBL TEST TO 1000 PSI, PULL ABOVE PERFS TO 7560' SET PLUG PU SET PACKER TEST TOOLS TO 1000 PSI GOOD TEST TIH TAG LINER TOP25' OUT JT# 265 @ 8638'. SLM POOH SET PLUG W/ JT# 252 UP 6', PU SET PACKER TESTED GOOD @ 1000 PSI. SET PACKER W/ JT# 246 UP 6'. CORRELATED DEPTH 8020'
	13:00 19:00	6.00	WOR	38		P		RU SWAB EQUIPMENT, TEST LUBE TO 800 PSI, MAKE 12 RUNS RECOVERY 147 BBLs, INITIAL FLUID LEVEL SURFACE, WELL STARTED FLOWING 100 BBLs PER HOUR. TOT FLOW BACK CREW.
	19:00 6:00	11.00	FB	23		P		CURRENT PRESSURE 0 RECOVERED TTL BBLs FROM ZONE 4 SWABBING AND FLOWING. OIL CUT THROUGH OUT ESTIMATED 3%.
9/16/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (SWABBING PROCEDURES)
	7:30 8:30	1.00	WOR	39		P		TOP KILL TUBING, RELEASE PACKER, RIH RETRIEVE RBP, CIH TO 3' OUT JT# 255 @ 8315'. SET PLUG, PU SET PACKER, TEST TOOLS TO 1000 PSI. PULL OUT TO JT 251' PU 26' SUBS, PU 6' SET PACKER @ 8196'.
	8:30 9:00	0.50	WOR	38		P		MAKE 3 CONS SWAB RUNS RECOVERING BBLs INITIAL FLUID LEVEL, FINAL FLUID LEVEL (SLOWING) SURFACE, OIL CUT @ 3%.
	9:00 9:30	0.50	WOR	38		P		RU & TEST LUBE, MAKE 3 CONS RUNS RECOVER 14 BBLs. INITIAL FLUID LEVEL SRFACE , ON 3RD RUN POOH SWIVEL ON SINKER BARS PARTED.
	9:30 18:30	9.00	WOR	58		P		WAIT ON PARTS, TIE ROPE SOCKET, RIH W/ 1 3/4" GPL AND 2 5/16" OVER SHOT, ON SAND LINE W/ DEPTH OMETER. TAG @ 8330' POOH RIG DOWN SWAB, RELEASE PACKER POOH W/ SUBS, JTS AND L/D PACKER SECURE WELL W/ 2 BARRIERS BLIND RAMS, B FLANGE. LEAVE CASING TO FACILITIES.
9/17/2016	6:00 7:30	1.50	BL	28		P		TGSM & JSA (BRAIDED LINE OPERATIONS)
	7:30 11:00	3.50	BL	52		P		MIRU CUTTERS BRAIDED LINE, RIH W/ WT BARS, JARS, SPANGS, 2 5/16" OVERSHOT W/ 1 3/4" GPL, W/ 6" SKIRT. LATCH ON FISH @ 8305' BRAIDED LINE DEPTH, PULL OVER 1300# POOH L/D FISH (EVERYTHING RECOVERED INCLUDING SWAB CUP) RDMOL W/ BRAIDED LINE UNIT.
	11:00 13:30	2.50	WOR	39		P		RIH W/ 7" HD PACKER 5 7/8" O.D 2.5 I.D, 1 JT 2 7/8", +45 PSN (2 1/4" I.D, 250 JTS 2 7/8" 8RD, 22' SUBS, SET PACKER @ 8196'. RU AND TEST SWAB LUBE. SWAB MANDRILL 2 5/16" O.D

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	13:30 13:30	0.00	WOR	38		P		MAKE 25 CONSECUTIVE RUNS INITIAL FLUID LEVEL @ 200' FINAL FLUID LEVEL @ 2800'. RECOVERED 187 BBLS FLUID. FINAL OIL CUT 3% VERY GASY BETWEEN RUNS. SHUT & LOCK PIPE RAMS BARRIER 1, SHUT AND NIGHT CAP CASING VALVE BARRIER 2, SHUT AND NIGHT CAP TIW VALVE.
9/18/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (SWABBING OPERATIONS)
	7:30 13:30	6.00	WOR	38		P		TSIP @ 860 PSI, BLED DOWN 3 BBLS OIL AND LOTS OF GAS. MAKE 27 CONSECUTIVE RUNS INITIAL FLUID LEVEL @ SURFACE FINAL FLUID LEVEL @ 2800'. RECOVERED 202 BBLS FLUID. AVERAGE OIL CUT 6%.
	13:30 17:30	4.00	WOR	38		P		RELEASE PACKER TUBING STARTED TO FLOW, TOP KILL TBG, RIH RETRIEVE RBP, RIH SET RBP @ 8585' W/ JT # 264 PU SET PACKER TEST TOOLS TO 1000 PSI, RELEASE PACKER POOH SET PACKER W/ 260 JTS AND 4' PUP JT @ 8,464'. RU AND TEST LUBE, MAKE 3 CONSECUTIVE RUNS RECOVER 22 BBLS STARTED TO FLOW. FLOW 75 BBLS FLUID TO FLOW BACK TANK. 15% OIL CUT. TURN TO FACILITIES AND TOT FLOW BACK CREW.
9/19/2016	6:00 6:00	24.00	FB	23		P		FLOW WELL AS INSTRUCTED
9/20/2016	7:00 8:30	1.50	WOR	28		P		CT TGSM & JSA (POOH W/ TOOLS)
	8:30 12:00	3.50	WOR	39		P		KILL WELL W/ 30 BBLS BRINE, RELEASE PACKER, RETRIEVE PLUG @ 8585', POOH W/ 263 JTS, PSN, 1 JT, PACKER AND PLUG.
	8:30 18:00	9.50	WLWORK	26		P		MIRU WIRE LINE, PRESSURE TEST LUBE 250 LOW AND 3000 HIGH. RIH W/ 7" WCS CBP SET @ 8185' AND WIRE LINE CCR @ 8035' RDMOL W/ WIRE LINE.
	18:00 20:00	2.00	WOR	39		P		RIH W/ STINGER, 1 JT, PSN, 173 JTS 2 7/8" 8RD EOT @ 5580, LAND DONUT 1 BARRIER, PIPE RAMS 2ND BARRIER, SHUT CASING VALVE INSTALL BULL PLUG, INSTALL AND SHUT TIW VALVE.
9/21/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (PUMPING CEMENT)
	7:30 8:30	1.00	WOR	39		P		CIH W/ 63 JTS 2 7/8" SPACE OUT ESTABLISH INJECTION RATE DOWN CASING 2.2 BPM @ 500 PSI, NO COMMUNICATION UP TUBING, ESTABLISH INJECTION RATE 3.8 BPM @ 680 PSI. NO COMMUNICATION UP CASING.RU PROPETRO CEMENTING EQUIPMENT.
	8:30 12:30	4.00	WOR	06		P		MIX AND PUMP 200 SX CEMENT W/ 2% CALCIUM CHLORIDE, AND 200 SX NEAT G 15.8 PPG FLUSH @ 3.8 BPM FLUSH AND LEAVE 10 BBLS IN TUBING, WALK IN ADDITIONAL 4 BBLS WALKED UP TO 1000 PSI, STING OUT ATTEMPT TO REVERSE OUT STARTED INJECTION 4 BPM @ 1200 PSI, WOULD NOT CIRCULATE, ATTEMPT TO GET MOVING DOWN TUBING TO 3000 PSI, POOH W/ 6 JTS RE TRY TO GET MOVING W/ NO SUCCESS, RD CEMENT EQUIPMENT. POOH W/ TUBING LAY DOWN 39 JTS W/ CEMENT.
	12:30 16:00	3.50	WOR	39		P		PUMU & RIH W/ 6" BIT, BIT SUB, 1 JT, PSN, 229 JTS 2 7/8" EOT @ 7500'-. SHUT AND LOCK PIPE RAMS, INSTALL AND SHUT TIW VALVE W/ NIGHT CAP. SHUT CASING VALVE W/ NIGHT CAP CREW TRAVEL.
9/22/2016	6:00 6:00	24.00	WOR	28		P		NO ACTIVITY QUARTERLY SAFETY MEETING
9/23/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (DRILLING OPERATIONS)
	7:30 15:00	7.50	WOR	72		P		RIH TAG AND RU POWER SWIVEL W/ JT# 248, BREAK CIRCULATION. DRILL UP CCR AND CEMENT TO CBP W/ 15' OUT JT# 252. CIRCULATE CLEAN
	15:00 19:00	4.00	WOR	39		P		RD POWER SWIVEL, POOH W/ 251 JTS, PSN, 1 JT BIT SUB & 6" BIT. BARRIERS AS FOLLOWS: SHUT AND LOCK BLIND RAMS, SHUT AND NIGHT CAP CASING VALVES. CT
9/24/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (RIH W/ PACKER)

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	7:30 19:00	11.50	WOR	39		P		RIH W/ 7" PACKER 1 JT, PSN, 245 JTS SET PACKER @ 5000', RU SWAB EQUIPMENT, MAKE 5 CONSECUTIVE RUNS RECOVERING 48 BBLS, FLUID LEVEL @ PSN, MAKE 4 HOURLY RUNS RECOVERING 9.5 BBLS IN 4 HOURS. RIG DOWN SWAB. ATTEMPT TO PRESSURE TEST TO 1000 PSI. LOST 240 PSI IN 1 MINUTE. BROKE DOWN @ 3000 PSI ESTABLISH INJECTION RATE 1.3 BPM @ 2500 PSI. RELEASE PACKER POOH ABOVE PERFS. SHUT AND LOCK PIPE RAMS, INSTALL AND SHUT TIW VALVE W/ NIGHT CAP. SHUT CASING VALVE W/ NIGHT CAP CREW TRAVEL.
9/25/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (POOH W/ PACKER)
	7:30 11:00	3.50	WOR	39		P		COOH W/ TUBING L/D PACKER. MIRU WIRE LINE PRESSURE TEST LUBE (LEAKING THROUGH BLIND RAMS HELD 500 PSI)
	11:00 14:00	3.00	WLWORK	26		P		RIH W/ CCR ATTEMPT TO SET @ 8040' PARTIALLY SET. ATTEMPT TO WORK FREE W/ NO SUCCESS, PULL OUT OF ROPE SOCKET, POOH RD WIRE LINE.
	14:00 19:30	5.50	WOR	39		P		PUMU RIH W/ 5 3/4" O/S DRESSED W/ 2 3/4" GRAPPLE, 247 JTS 2 7/8", ENGAUGE FISH WORK FREE, SOOH W/ TBG. SHUT AND LOCK PIPE RAMS, INSTALL AND SHUT TIW VALVE W/ NIGHT CAP. SHUT CASING VALVE W/ NIGHT CAP CREW TRAVEL.
9/26/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (TRIPPING TUBING)
	7:30 9:30	2.00	WOR	39		P		COOH W/ TUBING, L/D CCL, WT BAR AND SETTING TOOL.
	9:30 14:30	5.00	WOR	39		P		RIH W/ STINGER 1 JT, PSN, 246 JTS STING IN @ 8040' ATTEMPT TO GET INJECTION RATE TO 4500 PSI W/ NO SUCCESS. RU SWAB MAKE 4 RUNS IFL SURFACE ENDING 1800, PU ON TUBING WASNT STUNG IN CHASE TO 8082'.
	14:30 16:00	1.50	WOR	39		P		POOH W/ STINGER, RIH W/ 6" BIT, BIT SUB, 1 JT, PSN, 233 JTS. SHUT AND LOCK PIPE RAMS, INSTALL AND SHUT TIW VALVE W/ NIGHT CAP. SHUT CASING VALVE W/ NIGHT CAP CREW TRAVEL.
9/27/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (DRILLING OPERATIONS)
	7:30 11:30	4.00	WOR	72		P		RIH TAG UP DRILL ON CCR FOR 15 MINUTES, PUSH TO CBP @ 8185'. CIRCULATE CLEAN, POOH W 6" BIT.
	11:30 13:30	2.00	WLWORK	26		P		MIRU WIRE LINE PRESSURE TEST LUBE, BLINDS LEAK PREFORM LOW TEST, RIH W/ KLX CCR, SET @ 8000', POOH RD WIRE LINE.
	13:30 20:30	7.00	WOR	39		P		RIH W/ STINGER 1 JT, PSN, 245 JTS SPACE OUT W/ 8' PUP JT, ATTEMPT TO ESTABLISH INJECTION RATE, PRESSURE UP TO 4000 PSI, RU SWAB MAKE 5 CONSECUTIVE SWAB RUNS, RECOVER 45 BBLS FLUID. MAKE 1 HOURLY RUN, HAD 206' FLUID ENTRY RECOVER 1 BBL. RD SWAB. SHUT AND LOCK PIPE RAMS, INSTALL AND SHUT TIW VALVE W/ NIGHT CAP. SHUT CASING VALVE W/ NIGHT CAP CREW TRAVEL.
9/28/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (SWABBING OPERATIONS)
	7:30 10:30	3.00	WOR	39		P		MAKE 1 SWAB RUN 4 BBLS FLUID ENTRY IN 12 HOURS, RD SWAB, POOH W/ STINGER.
	10:30 19:30	9.00	WOR	72		P		RIH W/ 6" BIT, BIT SUB, 1 JT, PSN, 245 JTS TAG @ 8000', RU SWIVEL BREAK CIRCULATION, DRILL UP CCR PUSH TO 8185' RU SWIVEL DRILL UP CCR REMAINS AND CBP PUSH TO LINER TOP @ 8615' RU SWIVEL W/ JT# 265 CLEAN UP PLUG REMAINS AT LINER TOP, CIRCULATE WELL CLEAN. PULL ABOVE PERFS. SHUT AND LOCK PIPE RAMS, INSTALL AND SHUT TIW VALVE W/ NIGHT CAP. SHUT CASING VALVE W/ NIGHT CAP CREW TRAVEL.
9/29/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (TRIPPING PROCEDURES)

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	7:30 15:30	8.00	WOR	39		P		BWD POOH W/ 6" BIT, PUMU & RIH W/ 4 1/8" BIT, BIT SUB, 9 JTS 2 3/8", X/O TO 2 7/8", RIH TAG LINER TOP @ 8615' ATTEMPT TO WORK THROUGH W/ NO SUCCESS. RU SWIVEL BREAK CIRCULATION, PUSH CBP TO PBTD @ 8805'. CIRCULATE WELL CLEAN. RD SWIVEL. POOH W/ 4 1/8" BIT (LAYING DOWN BHA)
	15:30 20:00	4.50	WOR	39		P		MIRU HYDROTESTER, PUMU & RIH W/ 5 3/4" SOLID NO-GO, 2 JTS 2 7/8", 5 1/2" PBGA, 2' PUP JT, 2' PUP JT, 40' PUMP BARRELL, RU HYDROTESTING UNIT AND START TESTING 4' PUP JT, 4 JTS, 7" BCS TAC, & 132 JTS 2 7/8" 8RD L-80 TUBING. INSTALL HANGER, SHUT AND LOCK PIPE RAMS, INSTALL AND SHUT TIW VALVE W/ NIGHT CAP. SHUT CASING VALVE W/ NIGHT CAP CREW TRAVEL.
9/30/2016	6:00 7:30	1.50	WOR	28		P		CT TGSM & JSA (HYDRO TESTING)
	7:30 12:00	4.50	WOR	39		P		BWD CIH HYDRO TESTING 120 JTS 2 7/8" 8RD TUBING, (252 JTS, TAC, 4 JTS, PUP JT, PUMP BBL, MECH S/N, 2-2', 5 1/2" PBGA, 2 JTS, 5 3/4" SOLID NO-GO) RIG DOWN HYDRO TESTER, SET TAC, TEMPORARY LAND TUBING, RD FLOOR, ND BOP, RE LAND TUBING, NU B FLANGE, INSTALL 3/8" CAP TUBE, MU FLOW LINES. SHUT IN TUBING W/ NIGHT CAP ON PUMP T. SEND CASING TO FACILITIES RDMOL TO 3-7 C4.
	12:00 16:00	4.00	WOR	18		P		FLUSH TUBING W/ 60 BBLs & 10 GAL INHIBITORS, DROP S/V ATTEMPT TO PUMP ON SEAT DID NOT SEAT. WAIT ON CO ROD TO FINISH @ 3-7 C4
	16:00 19:30	3.50	WOR	39		P		PU 5' X 2 1/4" PLUNGER, 1 1/2" X 40' P-ROD, STAB SUB, ON/OFF TOOL, STAB SUB, 1400' #6, 4135' #5, 966' #6, 1756' #7, SPACE OUT W/ 8', 2' X 1" SUBS AND 1 1/2" X 40' P ROD. SECURE WELL
10/1/2016	7:00 7:30	0.50	WOR	28		P		TGSM & JSA (SLIDING UNIT)
	7:30 10:30	3.00	RDMO	02		P		FILL AND TEST W/ A BBL, L/S TO 1000 PSI, RD SLIDE UNIT, NO TAG TOTP, HEAT AND TRANSFER FLOW BACK TANK.