

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 Duchesne County 4-5C4							
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') Duchesne County						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-738-1139							
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 734 North Center Street, Duchesne, UT 84021						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		1561 FSL 1584 FEL		NWSE		5		3.0 S		4.0 W		U	
Top of Uppermost Producing Zone		1561 FSL 1584 FEL		NWSE		5		3.0 S		4.0 W		U	
At Total Depth		1561 FSL 1584 FEL		NWSE		5		3.0 S		4.0 W		U	
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1561			23. NUMBER OF ACRES IN DRILLING UNIT 640							
25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2000			26. PROPOSED DEPTH MD: 12800 TVD: 12800			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City							
27. ELEVATION - GROUND LEVEL 5993			28. BOND NUMBER 400JU0708										
Hole, Casing, and Cement Information													
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight			
Cond	20	13.375	0 - 600	54.5	J-55 ST&C	8.8	Class G	1292	1.15	15.8			
Surf	12.25	9.625	0 - 2500	40.0	N-80 LT&C	9.3	Unknown	312	3.16	11.0			
							Unknown	191	1.33	14.3			
I1	8.75	7	0 - 9520	29.0	HCP-110 LT&C	10.3	Unknown	347	3.1	11.0			
							Unknown	91	1.91	12.5			
L1	6.125	5	9320 - 12800	18.0	P-110 ST-L	13.4	Unknown	206	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 10/10/2013			EMAIL maria.gomez@epenergy.com							
API NUMBER ASSIGNED 43013525500000			APPROVAL			 Permit Manager							

**Duchesne County 4-5C4
Sec. 5, T3S, R4W
DUCESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	4,700' TVD
Green River (GRTN1)	5,810' TVD
Mahogany Bench	6,310' TVD
L. Green River	7,740' TVD
Wasatch	9,540' TVD
T.D. (Permit)	12,800' TVD

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	4,700' MD / TVD
	Green River (GRTN1)	5,810' MD / TVD
	Mahogany Bench	6,310' MD / TVD
Oil	L. Green River	7,740' MD / TVD
Oil	Wasatch	9,540' 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 from 600' MD/TVD to 2,500' MD/TVD on Conductor. A 5M BOP stack, 5M kill lines and choke manifold used from 2,500' MD/TVD to 9,520' MD/TVD. A 10M BOE w/ rotating head, 5M annular, blind rams & mud cross from 9,520' MD/TVD to TD (12,800' MD/TVD).

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

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

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

cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with 3-½" pipe rams, blind rams, mud cross and rotating head from intermediate 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 – 2,500' to TD (12,800' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

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

Please refer to the attached Wellbore Diagram.

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

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

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

5. **Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	8.8 – 9.3
Intermediate	WBM	9.3 – 10.3
Production	WBM	10.3 – 13.4

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: 2,500' MD/TVD – TD (12,800' MD/TVD)

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

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 12,800' TVD equals approximately 8,919 psi. This is calculated based on a 0.6968 psi/ft gradient (13.4 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 6,103 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 9,520' TVD = 7,616 psi

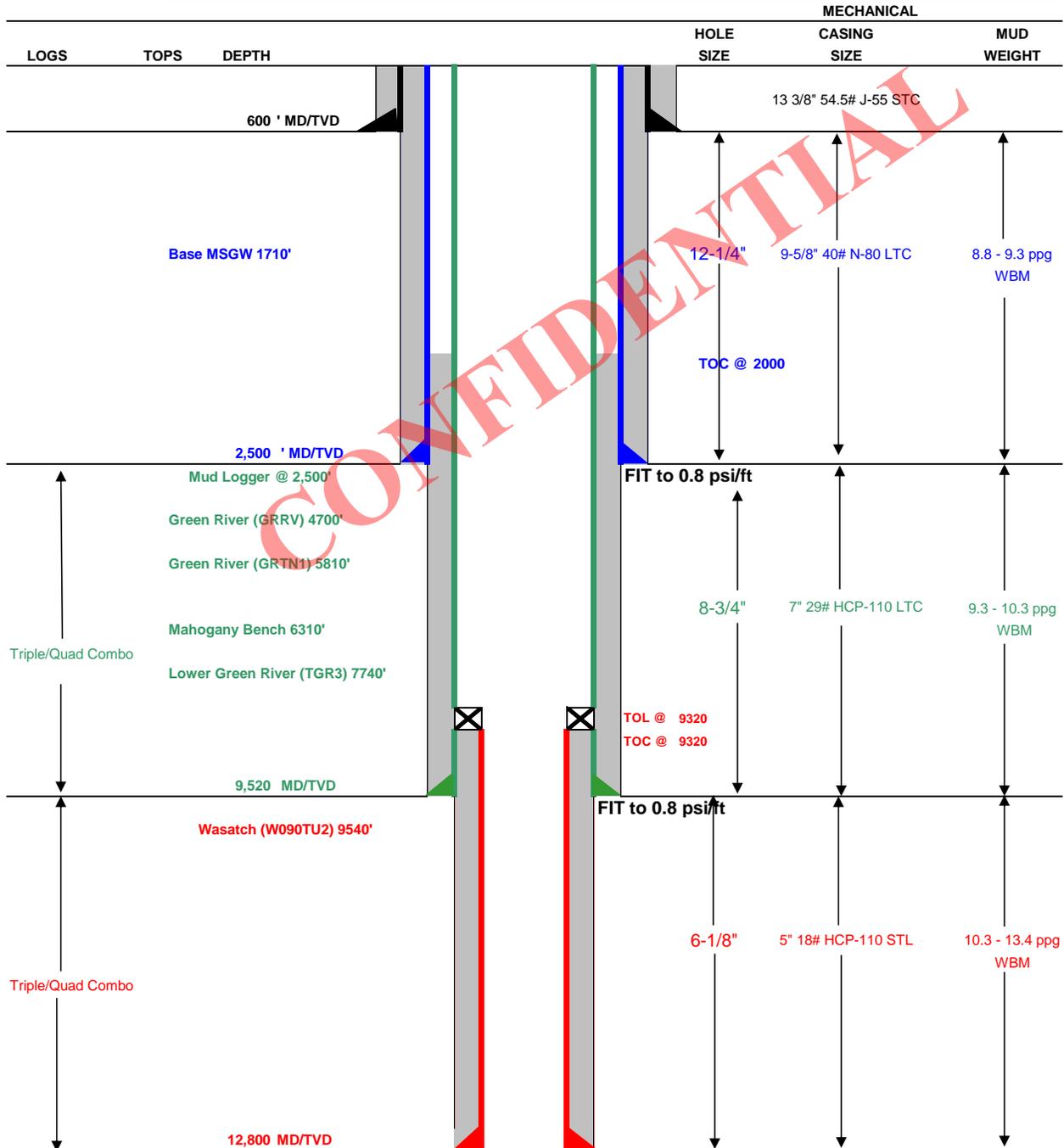
BOPE and casing design will be based on the lesser of the two MASPs which is 6,103 psi.

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



Drilling Schematic

Company Name: EP ENERGY	Date: October 9, 2013
Well Name: Duchesne County 4-5C4	TD: 12,800
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 5 T3S R4W 1561' FSL 1584' FEL	BHL: Straight Hole
Objective Zone(s): Green River, Wasatch	Elevation: 5992.6
Rig: Precision 404	Spud (est.): TBD
BOPE Info: 4.5 x 13 3/8 rotating head from 600' to 2,500' 11 5M BOP stack and 5M kill lines and choke manifold used from 2,500' to 9,520' 11 10M BOE w/rotating head, 5M annular, 3.5 rams, blind rams & mud cross from 9,520' to TD	



DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	600	54.5	J-55	STC	2,740	1,130	514
SURFACE	9-5/8"	0	2500	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	9520	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	9320	12800	18.00	HCP-110	STL	13,950	14,360	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		600	Class G + 3% CACL2	1292	100%	15.8 ppg	1.15
SURFACE	Lead	2,000	EXTENDACEM (TM) SYSTEM: 5 lbm/sk Silicalite Compacted + 0.25 lbm/sk Kwik Seal + 0.125 lbm/sk Poly-E-Flake + 2% Bentonite	312	75%	11.0 ppg	3.16
	Tail	500	HALCEM (TM) SYSTEM: 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.5% HR-5	191	50%	14.3 ppg	1.33
INTERMEDIATE	Lead	6,520	EXTENDACEM (TM) SYSTEM: 2% Cal-Seal 60 + 5 lbm/sk Silicalite Compacted + 0.35% Versaset + 0.3% D-Air 5000 + 2.5% Econolite + 0.25 lbm/sk Poly-E-Flake + 1 lbm/sk Granulite TR 1/4	347	10%	11.0 ppg	3.10
	Tail	1,000	EXPANDACEM (TM) SYSTEM: 0.2% Econolite + 0.3% Versaset + 0.9% HR-5 + 0.3% Super CBL + 0.2% Halad(R)-322 + 0.125 lbm/sk Poly-E-Flake	91	10%	12.5 ppg	1.91
PRODUCTION LINER		3,480	EXTENDACEM (TM) SYSTEM: 0.3% Super CBL + 0.1% SA-1015 + 0.3% Halad(R)-413 + 0.5% SCR-100 + 0.125 lbm/sk Poly-E-Flake + 3 lbm/sk Silicalite Compacted + 20% SSA-1	206	25%	14.20	1.47

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at 7,700'.
LINER	Float shoe, 1 joint, float collar. Thread lock all FE. Maker joints every 1000'.

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

MANAGER: Tommy Gaydos

EP ENERGY E&P COMPANY, L.P.
DUCHESNE COUNTY 4-5C4
SECTION 5, T3S, R4W, U.S.B.&M.

PROCEED NORTH ON PAVED STATE HIGHWAY 87 FROM THE INTERSECTION OF HIGHWAY 87 WITH U.S. HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 5.98 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL SOUTHEASTERLY AND EASTERLY 1.91 MILES ON A GRAVEL COUNTY ROAD TO AN INTERSECTION;

TURN LEFT AND TRAVEL NORTH 0.10 MILES ON A GRAVEL ROAD TO THE BEGINNING OF THE PROPOSED ACCESS ROAD;

TURN LEFT AND FOLLOW ROAD FLAGS 0.17 MILES TO THE PROPOSED WELL LOCATION;

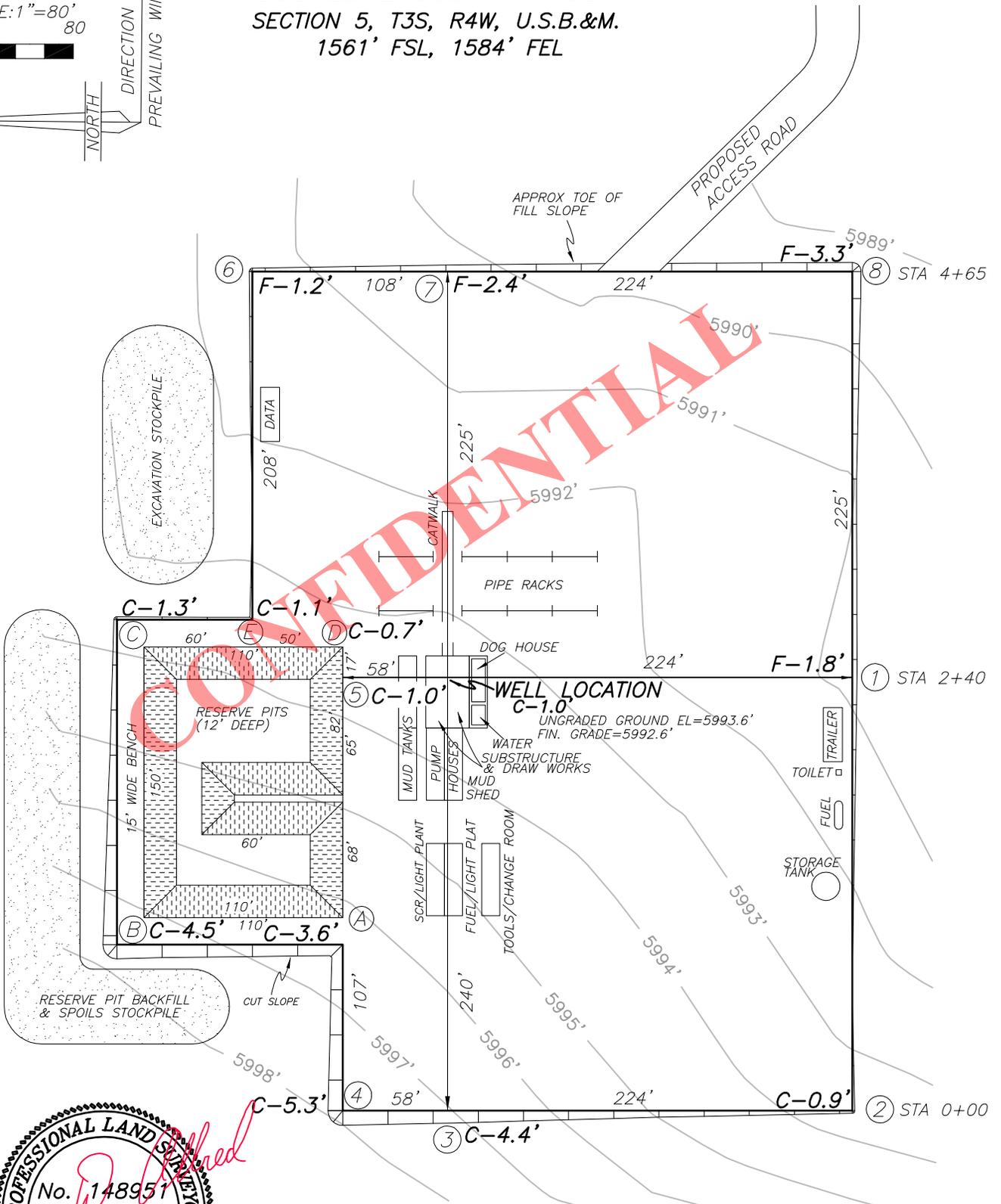
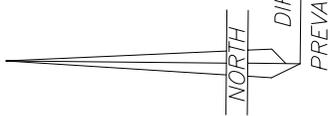
TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 8.16 MILES.

EP ENERGY E&P COMPANY, L.P.

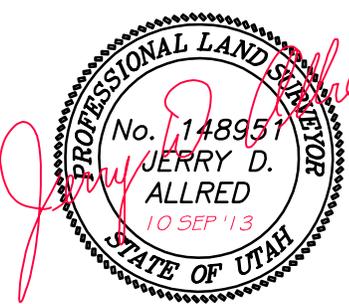
FIGURE #1

LOCATION LAYOUT FOR
DUCHESNE COUNTY 4-5C4
SECTION 5, T3S, R4W, U.S.B.&M.
1561' FSL, 1584' FEL

SCALE: 1"=80'
0 80



CONFIDENTIAL



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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

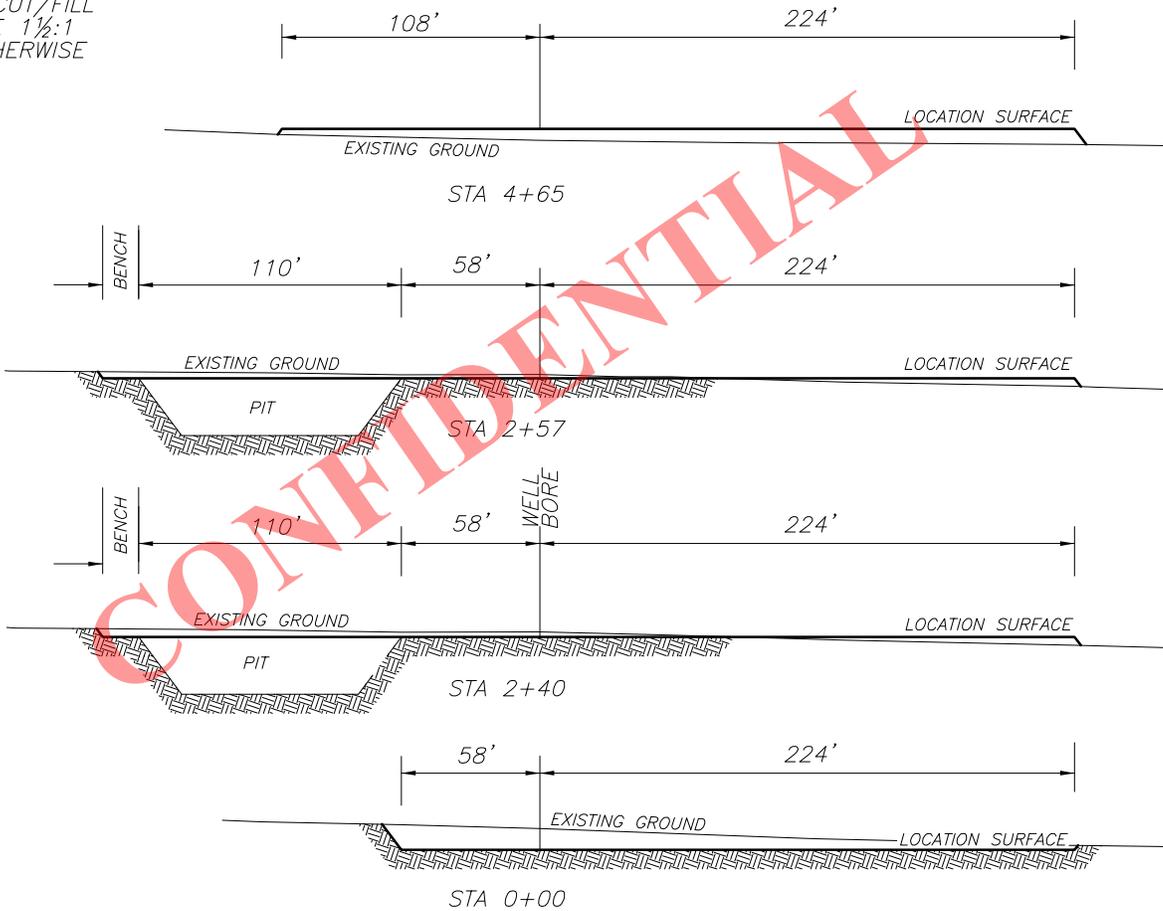
EP ENERGY E&P COMPANY, L.P.

FIGURE #2

LOCATION LAYOUT FOR
 DUCHESNE COUNTY 4-5C4
 SECTION 5, T3S, R4W, U.S.B.&M.
 1561' FSL, 1584' FEL

X-SECTION
 SCALE
 1"=40'
 1"=80'

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



APPROXIMATE YARDAGES

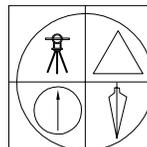
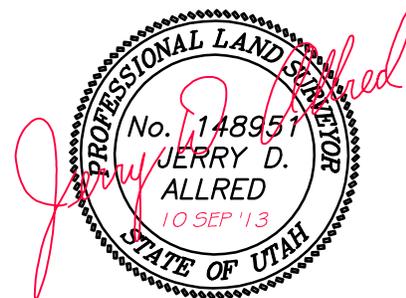
TOTAL CUT (INCLUDING PIT) = 12,964 CU. YDS.

PIT CUT = 4955 CU. YDS.
 TOPSOIL STRIPPING: (6") = 3140 CU. YDS.
 REMAINING LOCATION CUT = 4869 CU. YDS

TOTAL FILL = 4869 CU. YDS.

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

ACCESS ROAD GRAVEL=250 CU. YDS.



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10 SEP 2013

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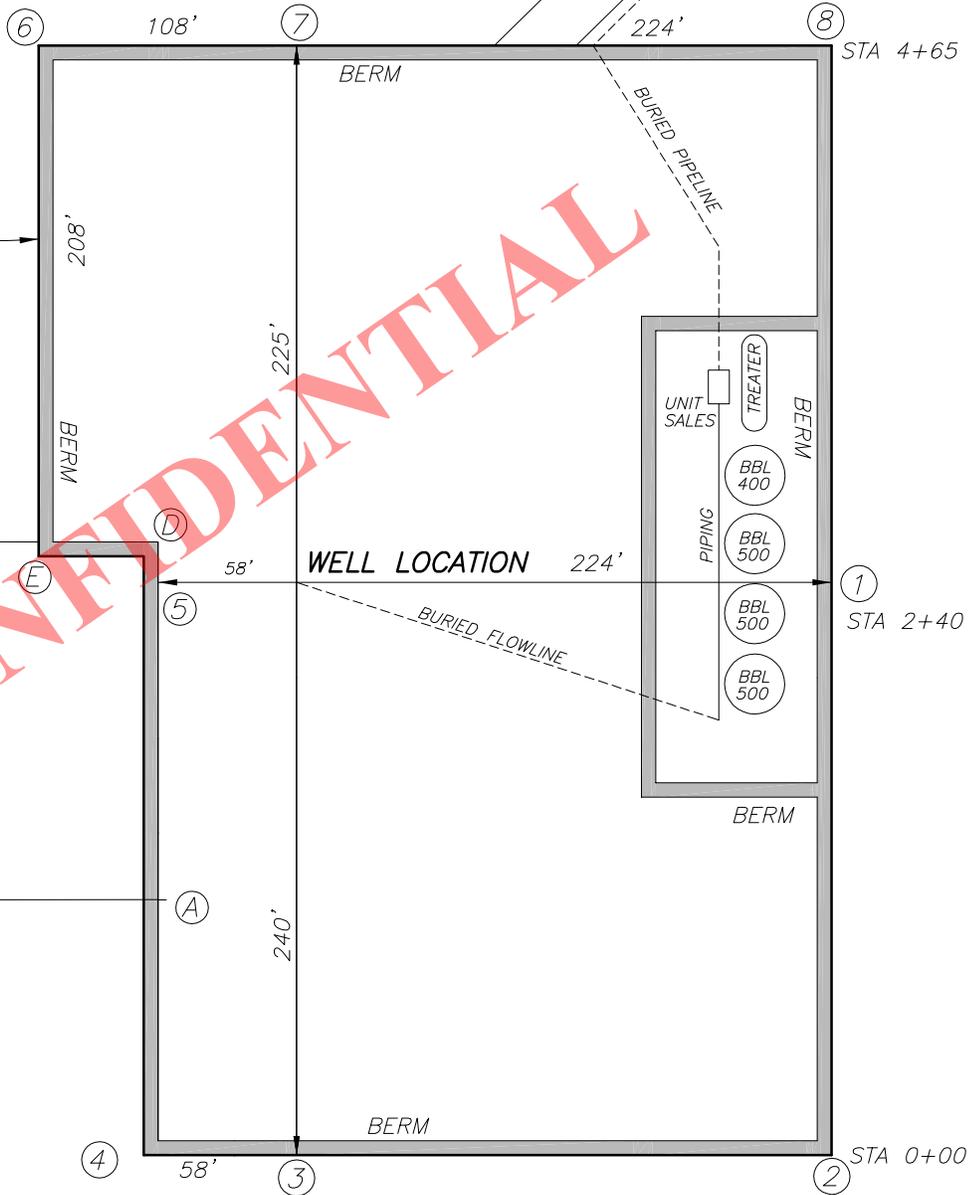
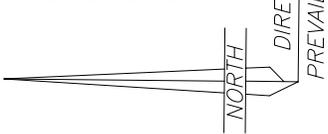
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EP ENERGY E&P COMPANY, L.P.

FIGURE #3

LOCATION LAYOUT FOR
DUCHESNE COUNTY 4-5C4
SECTION 5, T3S, R4W, U.S.B.&M.
1561' FSL, 1584' FEL

SCALE: 1"=80'
0 80

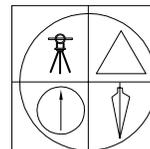
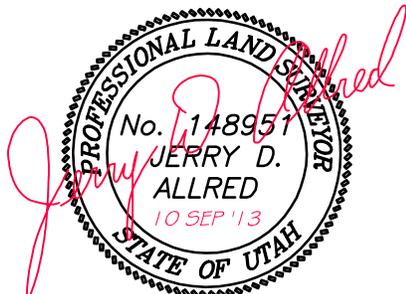


WELL PAD AREA
BERMED AND USED
FOR PRODUCTION

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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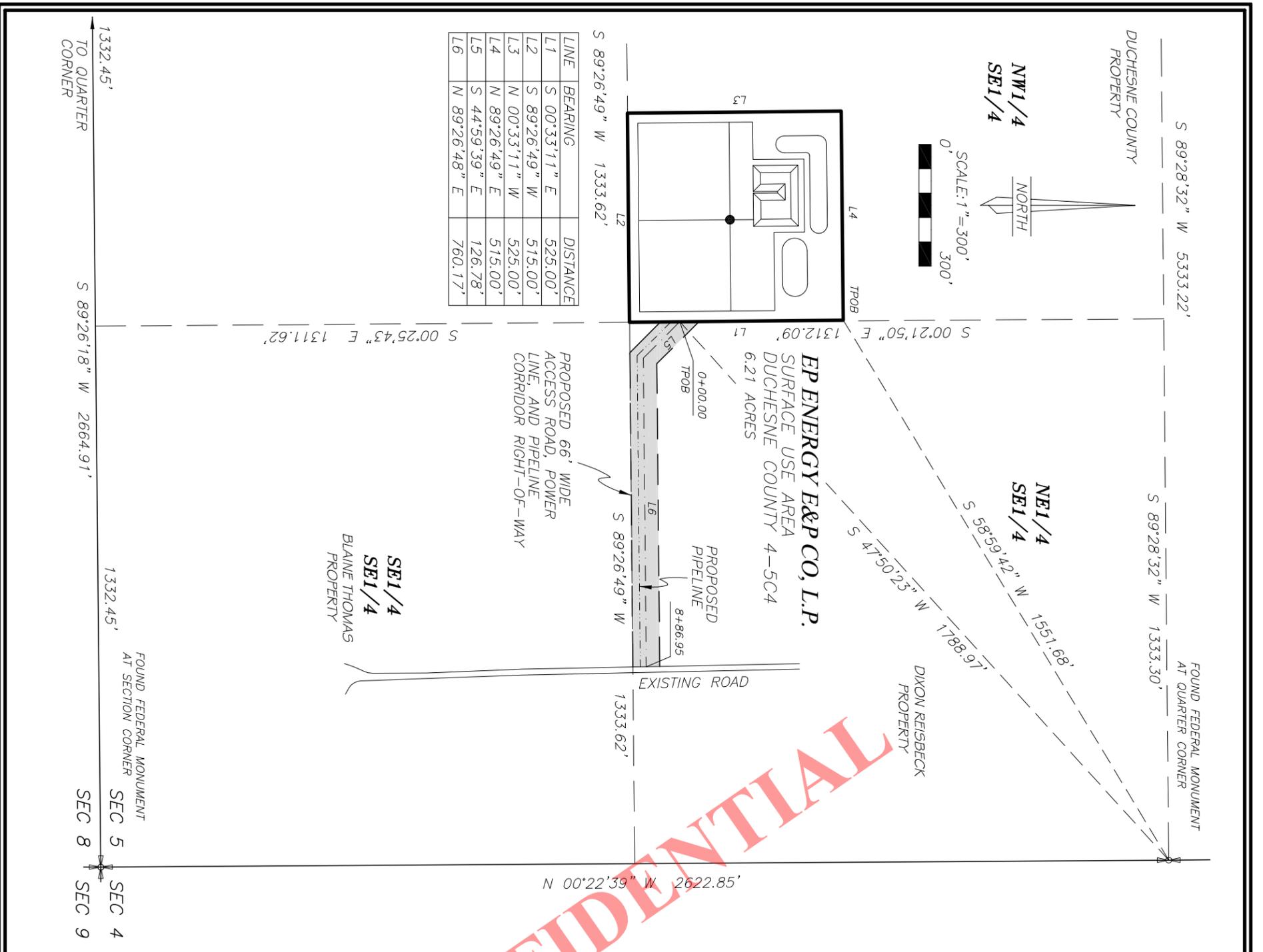
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LOCATION USE AREA AND ACCESS ROAD, POWER LINE, AND PIPELINE
 CORRIDOR RIGHT-OF-WAY SURVEY FOR
EP ENERGY E&P COMPANY, L.P.
DUCHESNE COUNTY 4-5C4
 SECTION 5, T3S, R4W, U.S.B.&M.
 DUCHESNE COUNTY, UTAH

USE AREA BOUNDARY DESCRIPTION

Commencing at the East Quarter Corner of Section 5, Township 3 South, Range 4 West of the Uintah Special Base and Meridian;
 Thence South 58°59'42" West 1551.68 feet to the TRUE POINT OF BEGINNING;
 Thence South 00°33'11" East 525.00 feet;
 Thence South 89°26'49" West 515.00 feet;
 Thence North 00°33'11" West 525.00 feet;
 Thence South 89°26'49" East 515.00 feet to the TRUE POINT OF BEGINNING, containing 6.21 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 5, Township 3 South, Range 4 West of the Uintah Special Base and Meridian, the centerline of said right-of-way being further described as follows:
 Commencing at the East Quarter Corner of said Section 5;
 Thence South 47°50'23" West 1788.97 feet to the TRUE POINT OF BEGINNING, said point being on the East line of the EP Energy Co. Duchesne County 4-5C4 well location use area boundary;
 Thence South 44°59'39" East 126.78 feet;
 Thence North 89°26'48" East 760.17 feet to the West line of an existing road. Said right-of-way being 886.95 feet in length with the side lines being shortened or elongated to intersect said use area boundary and existing road lines.

SURVEYOR'S CERTIFICATE

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

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

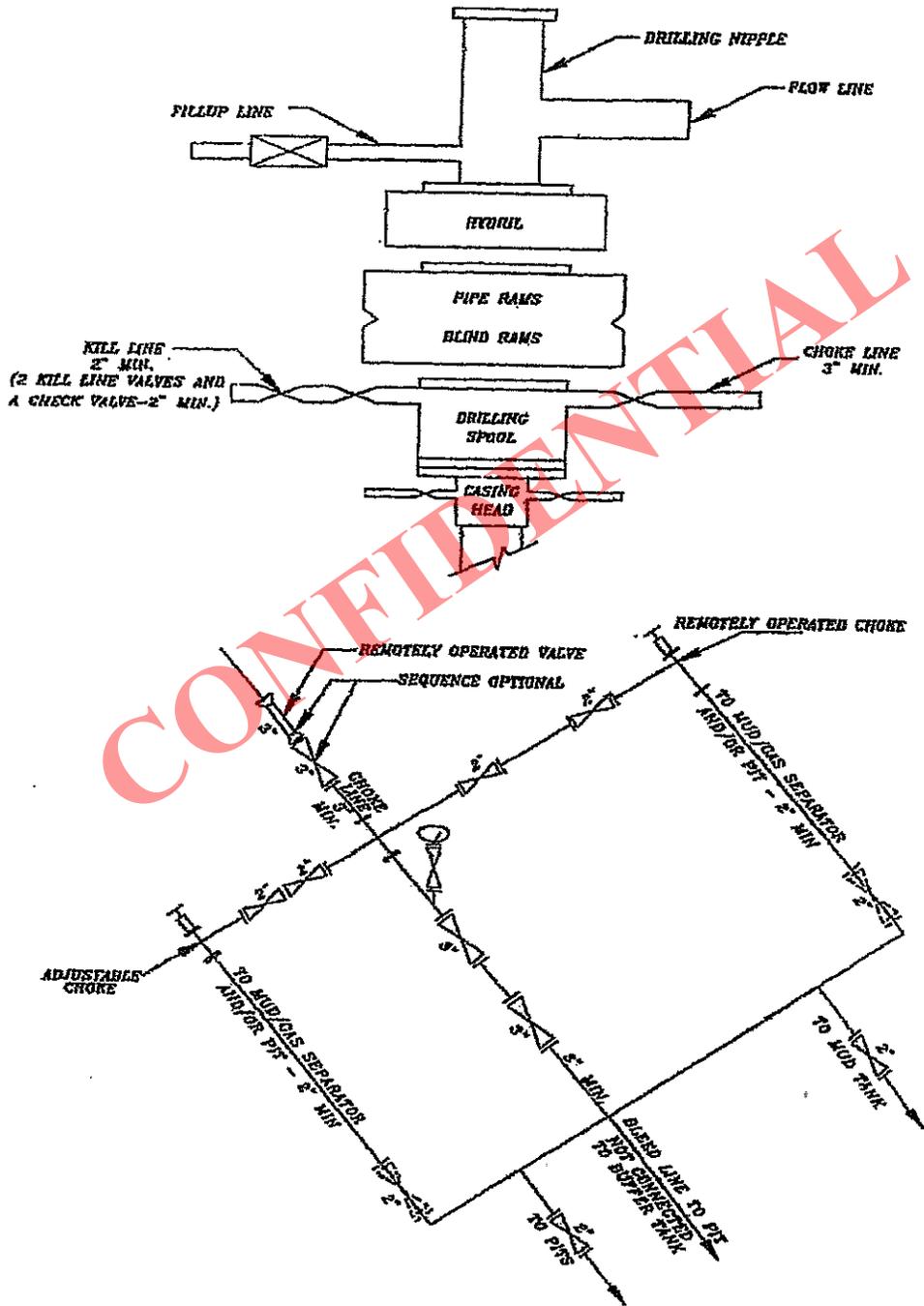
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258"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

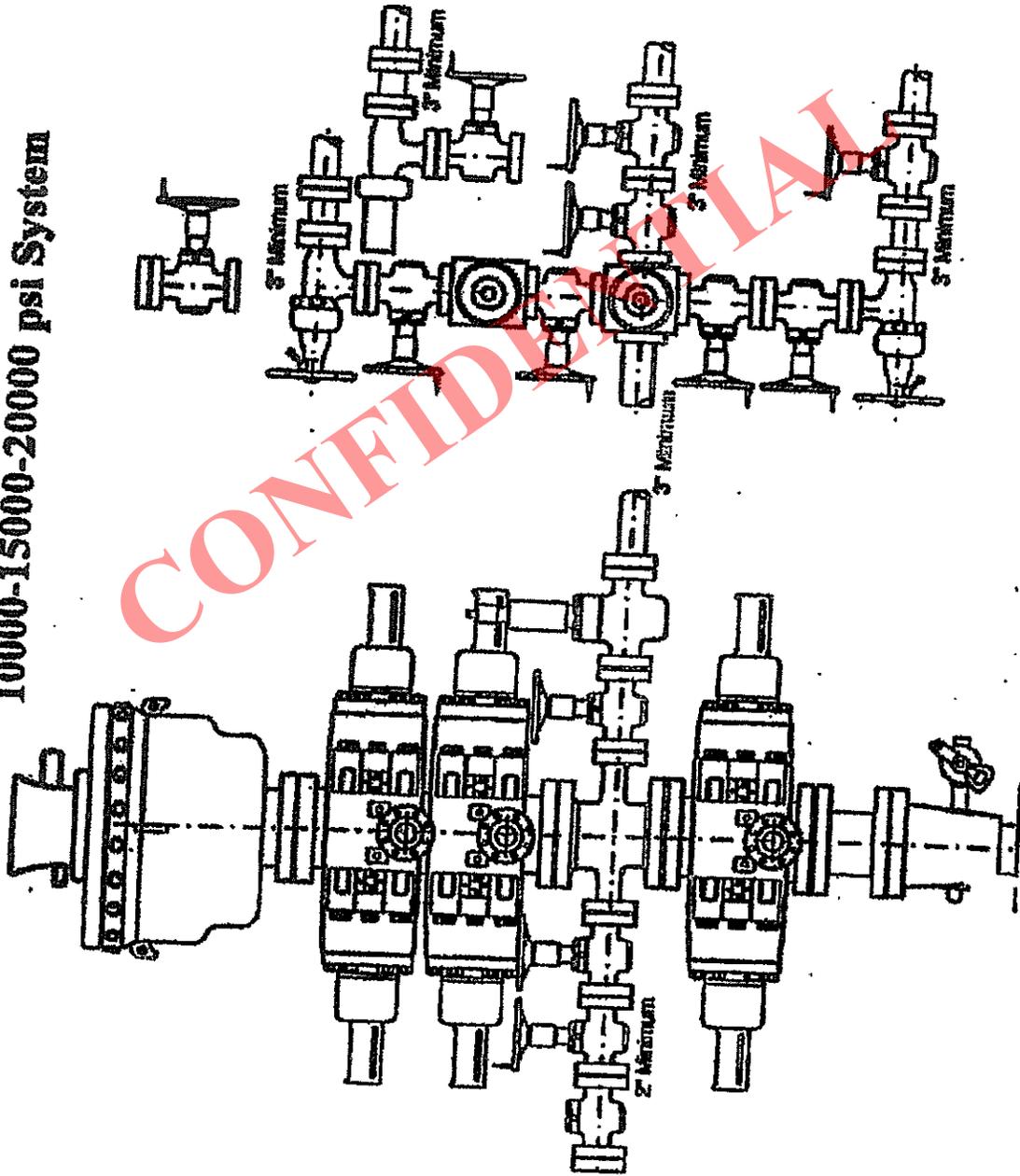
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5M BOP STACK and CHOKE MANIFOLD SYSTEM



10000-15000-20000 psi System

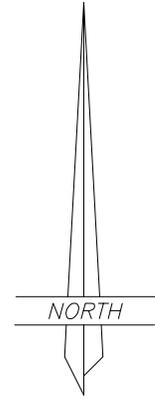
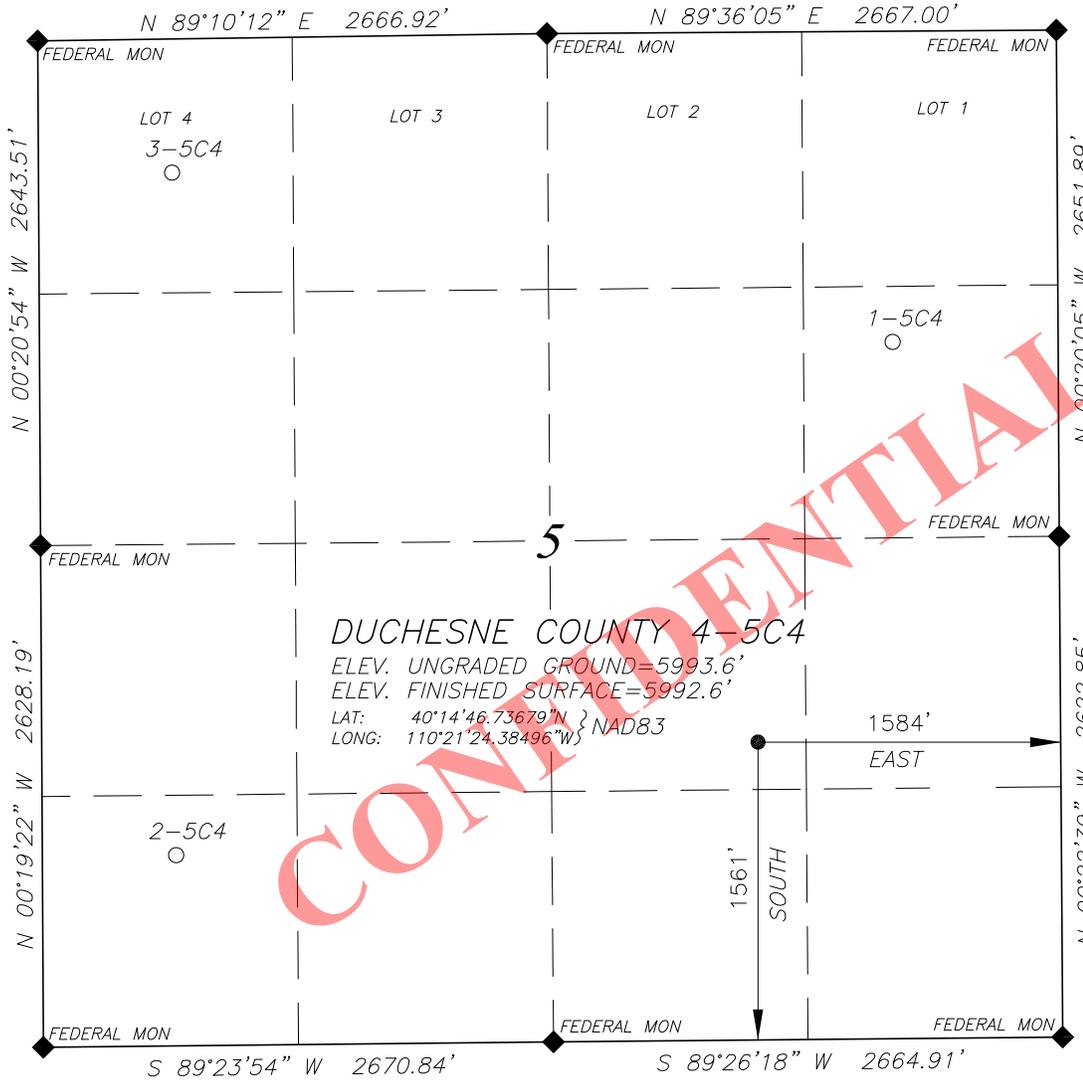


EP ENERGY E&P COMPANY, L.P.

WELL LOCATION

DUCHESNE COUNTY 4-5C4

LOCATED IN THE NW¼ OF THE SE¼ OF SECTION 5, T3S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH



SCALE: 1" = 1000'



NOTE:
NAD27 VALUES FOR WELL POSITION:
LAT: 40.24635937° N
LONG: 110.35606259° W

DUCHESNE COUNTY 4-5C4

ELEV. UNGRADED GROUND=5993.6'
ELEV. FINISHED SURFACE=5992.6'
LAT: 40°14'46.73679"N } NAD83
LONG: 110°21'24.38496"W }

SURVEYOR'S CERTIFICATE

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

LEGEND AND NOTES

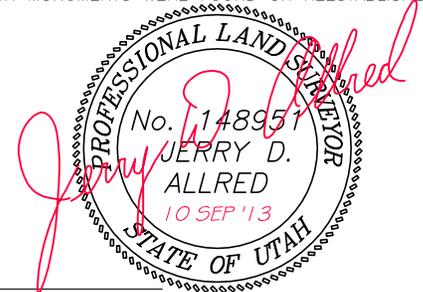
◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP

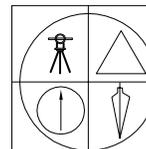
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BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM



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

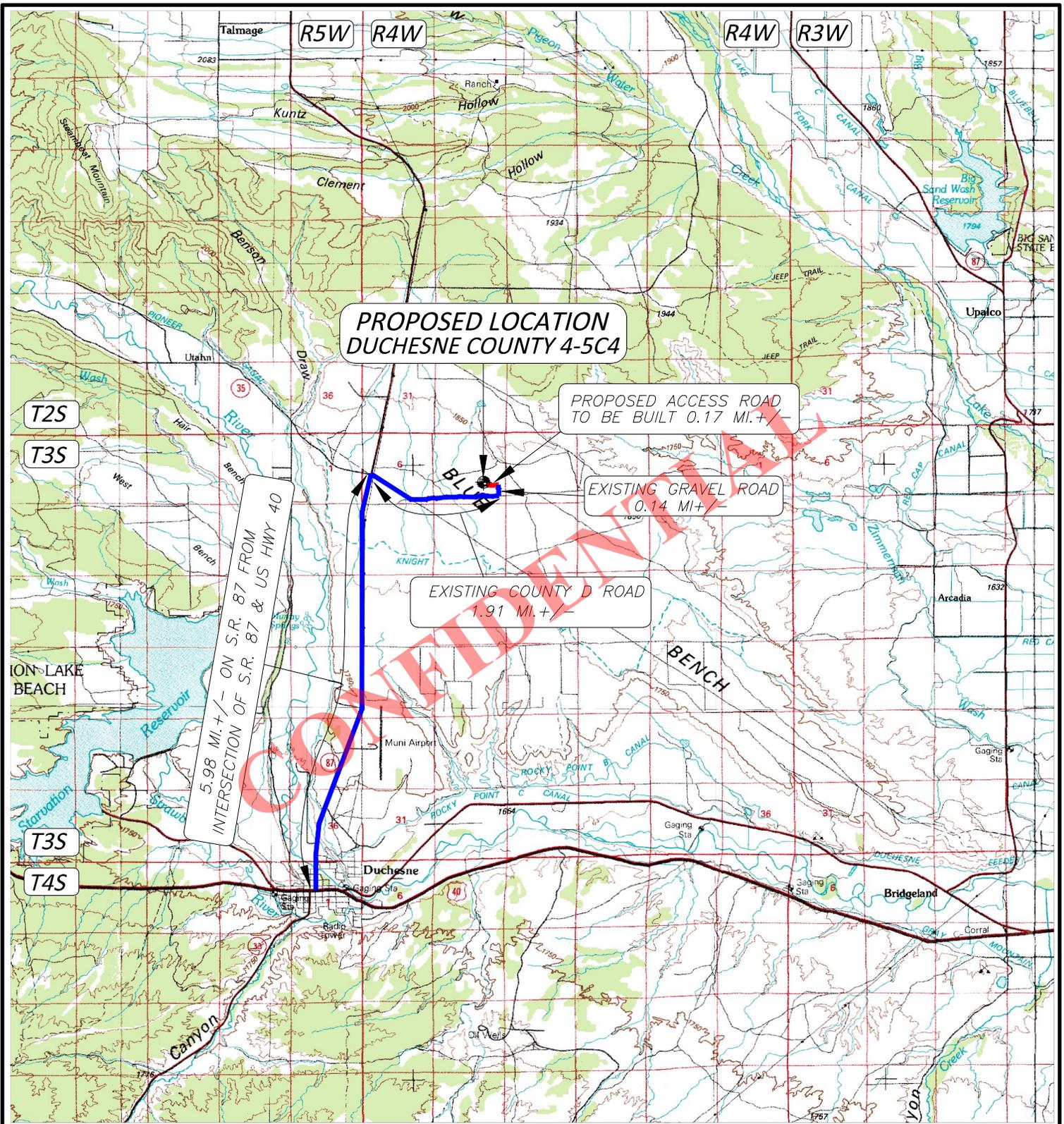


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10 SEP 2013 01-128-465

RECEIVED: October 09, 2013



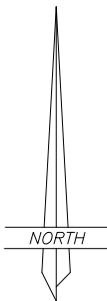
LEGEND:

 PROPOSED WELL LOCATION

01-128-465

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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



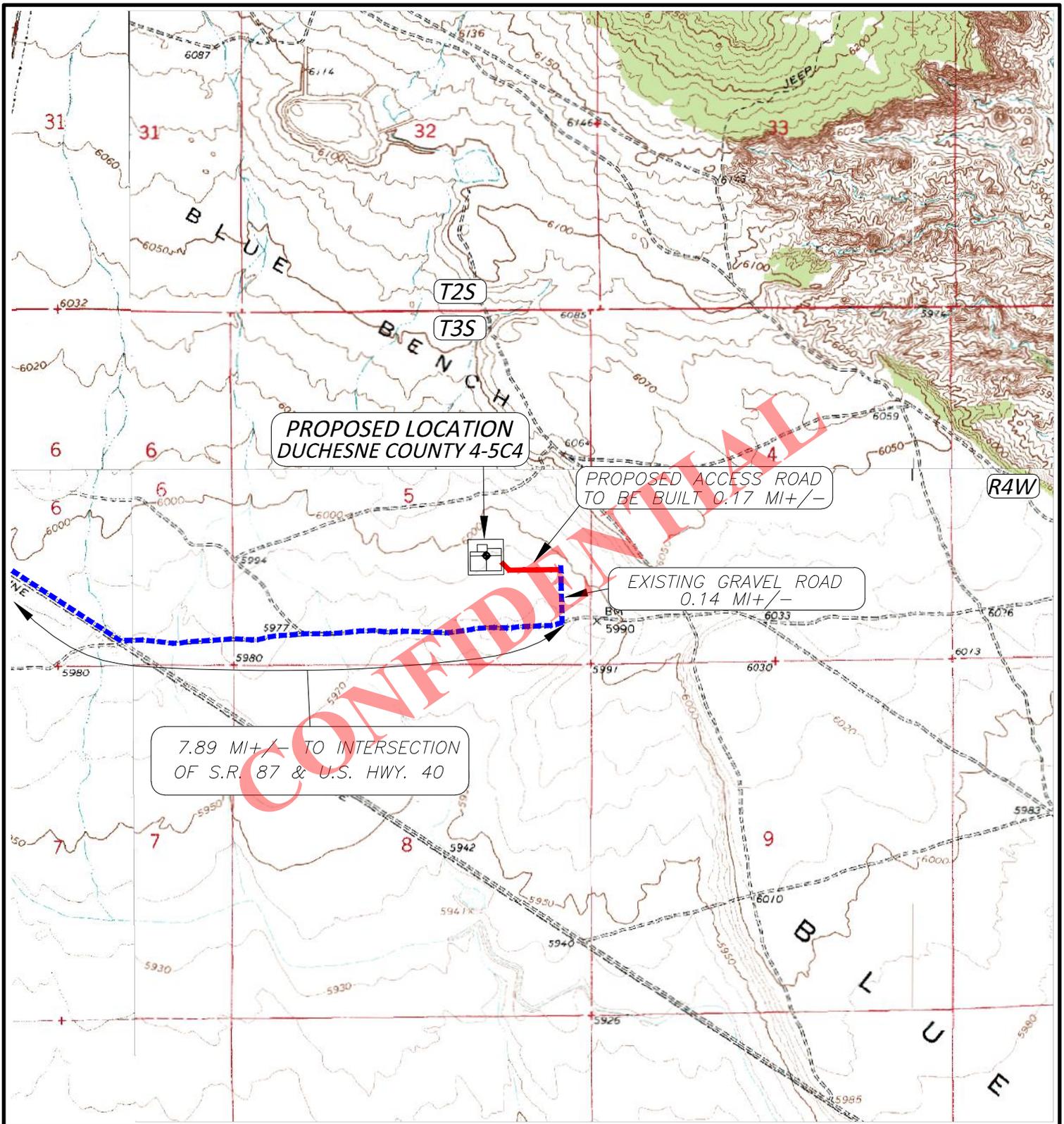
EP ENERGY E&P COMPANY, L.P.

DUCHEсне COUNTY 4-5C4
SECTION 5, T3S, R4W, U.S.B.&M.

1561' FSL 1584' FEL

TOPOGRAPHIC MAP "A"

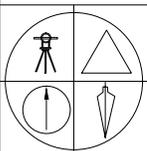
SCALE; 1"=10,000'
11 SEP 2013



LEGEND:

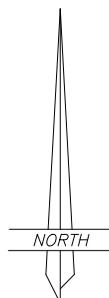
-  PROPOSED WELL LOCATION
-  PROPOSED ACCESS ROAD
-  EXISTING GRAVEL ROAD
-  EXISTING DIRT ROAD

01-128-465



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DUCHEсне, UTAH 84021
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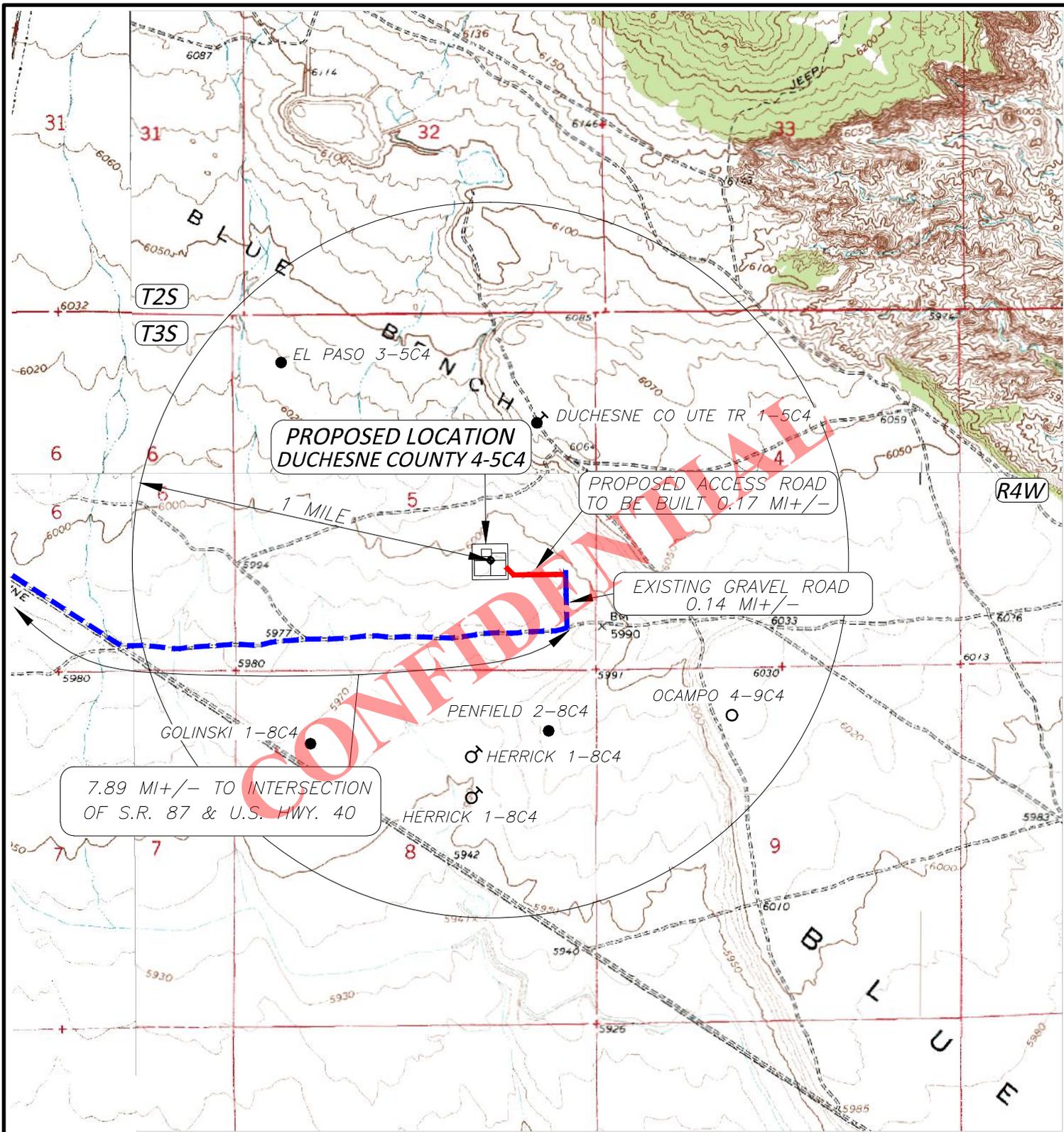
EP ENERGY E&P COMPANY, L.P.

DUCHEсне COUNTY 4-5C4
SECTION 5, T3S, R4W, U.S.B.&M.

1561' FSL 1584' FEL

TOPOGRAPHIC MAP "B"

SCALE; 1"=2000'
11 SEP 2013

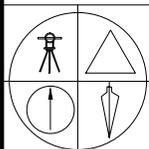


LEGEND:

◆ PROPOSED WELL LOCATION

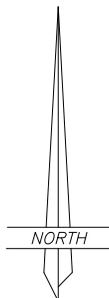
● ● + ◆ ○ ● ♂

01-128-465



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.

DUCHEсне COUNTY 4-5C4
SECTION 5, T3S, R4W, U.S.B.&M.

1561' FSL 1584' FEL

TOPOGRAPHIC MAP "C"

SCALE; 1"=2000'
11 SEP 2013

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE

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

1. My name is Jacquelyn L. Lynch. I am a Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana St., Houston, Texas 77002 (“EP Energy”).
2. EP Energy is the operator of the proposed Duchesne County 4-5C4 well (the “Well”) to be located in the NW/4SE/4 of Section 5, Township 3 South, Range 4 West, USM, Duchesne County, Utah (the “Drillsite Location”). The surface owner of the Drillsite Location is Duchesne County, whose address is 734 North Center Street, Duchesne, UT 84021 (the “Surface Owner”). The Surface Owner’s telephone number is (435) 738-1139.
3. EP Energy and the Surface Owner have entered into a Damage Settlement and Release Agreement dated September 16, 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 of the Well.

FURTHER AFFIANT SAYETH NOT

Jacquelyn L. Lynch

 Jacquelyn L. Lynch

CONFIDENTIAL

ACKNOWLEDGMENT

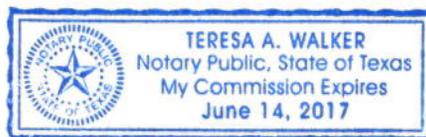
STATE OF TEXAS §
 §
 CITY AND COUNTY OF HARRIS §

Before me, a Notary Public, in and for this state, on this 20th day of September 2013, personally appeared Jacquelyn L. Lynch, to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that she executed the same as her own free and voluntary act and deed for the uses and purposes therein set forth.

Teresa A. Walker

 NOTARY PUBLIC

My Commission Expires:



Notary ID# 12533182-6

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 .17 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 .17 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:

Duchesne County
734 North Center Street
Duchesne, Utah 84021
435-738-1139

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:

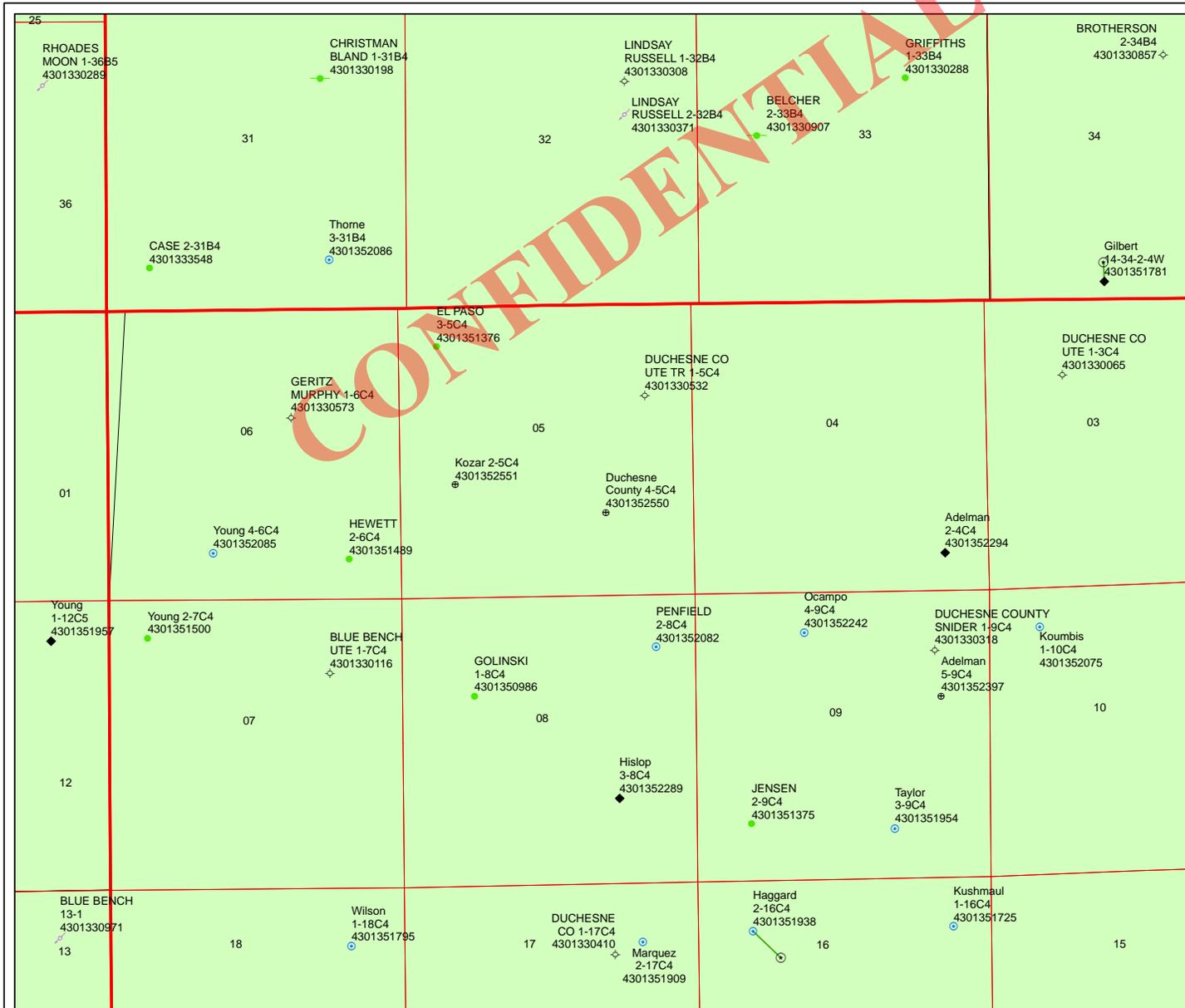
EP Energy E&P Company, L.P.
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

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



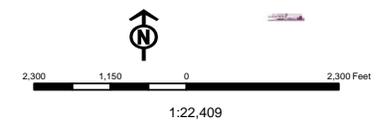
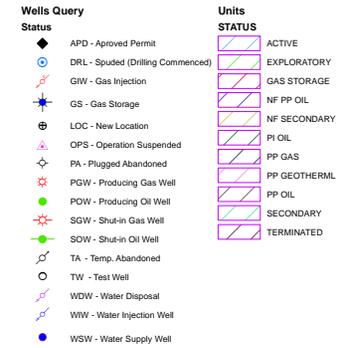
API Number: 4301352550

Well Name: Duchesne County 4-5C4

Township: T03.0S Range: R04.0W Section: 05 Meridian: U

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

Map Prepared: 10/10/2013
Map Produced by Diana Mason



Well Name	EP ENERGY E&P COMPANY, L.P. Duchesne County 4-5C4 430135255			
String	Cond	Surf	I1	L1
Casing Size(")	13.375	9.625	7.000	5.000
Setting Depth (TVD)	600	2500	9520	12800
Previous Shoe Setting Depth (TVD)	0	600	2500	9520
Max Mud Weight (ppg)	8.8	9.3	10.3	13.4
BOPE Proposed (psi)	1000	1000	5000	10000
Casing Internal Yield (psi)	2730	5750	11220	13940
Operators Max Anticipated Pressure (psi)	8919			13.4

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

Calculations	Surf String	9.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	1209		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	909	YES	4.5 x 13 3/8 Smith rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	659	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	791	NO	OK
Required Casing/BOPE Test Pressure=		2500	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=	5099		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3957	YES	5M BOPE w/5M kill lines, choke manifold
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3005	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3555	NO	OK
Required Casing/BOPE Test Pressure=		7854	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		2500	psi *Assumes 1psi/ft frac gradient	

Calculations	L1 String	5.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	8919		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	7383	YES	10M BOPE w/rotating head, 5M annular,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	6103	YES	blind rams & mud cross
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	8197	YES	OK
Required Casing/BOPE Test Pressure=		9758	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		9520	psi *Assumes 1psi/ft frac gradient	

43013525500000 Duchesne Co 4-5C4

Casing Schematic

12% 15% 18%

Surface

13-3/8"
MW 8.8

9-5/8"
MW 9.3
Frac 19.3

7"
MW 10.3
Frac 19.3

5"
MW 13.4

TOC @ 0.
to 0 @ 10% tail 1976'
Conductor
600. MD

1710' ± BMSW (EP Energy)
1900' ± BMSW
2060' tail * S+P ✓

Surface
2500. MD

to 2047' @ 2% w/o, tail 2480'
* Proposed to 2000'

TOC @ 4650.
4700' Green River

* S+P ✓

5810' Green River GRTN1

6310' Mahogany Bench

7740' Lower Green River

8843' tail

12%
TOL @ 9320.

9540 Intermediate Wasatch
9520. MD

TOC @ 10283.
to TOL @ 4% w/o

✓

Offset Injection Wells

- 4301330371 - 2464' to 3720' - 1 mile N
- 4301330289 - 410' to 5055' - 3 mile NW
- 4301330971 - 4106' to 7528' - 2.5 mile SW

Production Liner
12800. MD

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Stop cont.

Well name:	43013525500000 Duchesne Co 4-5C4		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Conductor	Project ID:	43-013-52550
Location:	UINTAH COUNTY		

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

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

Cement top: Surface

Burst

Max anticipated surface pressure: 202 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 274 psi
 Annular backup: 1.50 ppg

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: 522 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	7444
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	274	1130	4.120	227	2730	12.00	28.4	514	18.07 J

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

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

Date: November 26, 2013
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 600 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013525500000 Duchesne Co 4-5C4		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Surface	Project ID:	43-013-52550
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 9.300 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: 109 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: 351 ft

Burst

Max anticipated surface pressure: 2,200 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP: 2,500 psi
 Annular backup: 1.50 ppg

Tension:

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

Tension is based on buoyed weight.
 Neutral point: 2,154 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 9,520 ft
 Next mud weight: 10.300 ppg
 Next setting BHP: 5,094 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 2,500 ft
 Injection pressure: 2,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2500	9.625	40.00	N-80	LT&C	2500	2500	8.75	31809
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	1208	3090	2.559	2305	5750	2.49	86.2	737	8.55 J

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

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

Date: November 26, 2013
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2500 ft, a mud weight of 9.3 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:	43013525500000 Duchesne Co 4-5C4		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Intermediate	Project ID:	43-013-52550
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 10.300 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: 207 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Cement top: 4,650 ft

Burst

Max anticipated surface pressure: 6,094 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 8,189 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: 8,036 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 12,800 ft
 Next mud weight: 13.400 ppg
 Next setting BHP: 8,910 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 9,520 ft
 Injection pressure: 9,520 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	9520	7	29.00	HCP-110	LT&C	9520	9520	6.059	107506
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	5094	9200	1.806	8189	11220	1.37	233	797	3.42 J

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

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

Date: November 26, 2013
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9520 ft, a mud weight of 10.3 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:	43013525500000 Duchesne Co 4-5C4		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Production Liner	Project ID:	43-013-52550
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 13.400 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 253 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Burst

Max anticipated surface pressure: 6,094 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 8,910 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: 12,086 ft

Cement top: 10,283 ft

Liner top: 9,320 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	3500	5	18.00	HCP-110	ST-L	12800	12800	4.151	277200
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	8910	15360	1.724	8910	13940	1.56	50.1	341	6.80 J

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

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

Date: November 26, 2013
 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 12800 ft, a mud weight of 13.4 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name Duchesne County 4-5C4
API Number 43013525500000 **APD No** 8707 **Field/Unit** ALTAMONT
Location: 1/4,1/4 NWSE Sec 5 Tw 3.0S Rng 4.0W 1561 FSL 1584 FEL
GPS Coord (UTM) **Surface Owner** Duchesne County

Participants

Jared Thacker, Heather Ivie (EP Energy), Glen Murphy (Duchesne County), Dennis Ingram (DOGM).

Regional/Local Setting & Topography

The Duchesne County 4-5C4 is located in northeastern Utah approximately 5.98 miles north of Duchesne along Highway 87, then east for another 1.97 miles before turning north for another 0.14 miles where the access road will turn west. Regionally, this well plots up along the northern reaches of Blue Bench which is mostly flat, bench-like habitat that slopes gently to the south into the Duchesne River Drainage. The topography rises to the north into rocky shelf-like habitat that is commonly found on Black tail Mountain or the southern slopes of the Book Cliffs, then into more bench property that has scattered pinion juniper trees. Approximately three miles to the west, the topography drops off Blue Bench into the Duchesne River corridor that drains south from the Uinta Mountains.

Surface Use Plan

Current Surface Use

Recreational
Deer Winter Range

New Road Miles

0.17

Well Pad

Width 407 Length 465

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Sage brush, prickly pear cactus, limited grasses

Mule deer winter range potential, coyote, rabbit, prairie dog, smaller mammals, smaller song birds native to region, also owl, hawk and eagle potential

Soil Type and Characteristics

Reddish brown, fine-grained blow sand

Erosion Issues N

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

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

Characteristics / Requirements

Reserve pit proposed on north side of location in cut, measuring 110' wide by 150' long by 12' deep, with prevailing winds from the west.

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

Concerns about any wells on lands that will impact future landfill use, this well does not fall into the hundred year use plans that the county has mapped out, no other issues or comments.

Dennis Ingram
Evaluator

11/6/2013
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
8707	43013525500000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Duchesne County	
Well Name	Duchesne County 4-5C4		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NWSE 5 3S 4W U 1561 FSL 1584 FEL GPS Coord (UTM) 554701E 4455281N				

Geologic Statement of Basis

E P proposes to set 600 feet of conductor and 2,500 feet of surface casing both of which will be cemented to surface. The surface hole will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 1,900 feet. A search of Division of Water Rights records indicates that there are 9 water wells within a 10,000 foot radius of the center of Section 5. Two wells are located approximately 3/4 mile from the proposed well and are owned by the Duchesne County Landfill. These wells are 540 and 150 feet in depth. The wells are listed as being used for irrigation, stock watering,, oil exploration, municipal, industrial and domestic. The proposed drilling, casing and cement program should adequately protect usable ground water in this area.

Brad Hill
APD Evaluator

11/26/2013
Date / Time

Surface Statement of Basis

The surface at the proposed well site slopes gently toward the southeast, have a nine foot drop from the northwest corner to the southeast. The reserve pit is proposed along the north side of the well pad, in cut with fine-grained sandy soils like what is found in a sandbox. Therefore, the operator shall install and maintain a 16 mil or thicker synthetic liner in the reserve pit. The location shall be bermed to prevent fluids from leaving the well site. There weren't any drainage issues found that impact the surface construction of this location.

A presite was scheduled and performed for the Duchesne County 4-5C4 on November 6, 2013 to address issues regarding the construction and drilling of this well. Duchesne County was shown as the landowner and was therefore invited to the presite. Glen Murphy represented county interest and had a map for future landfill use. After we plotted up this well on his map he could see it was over a mile outside of the interest area for the county. EP Energy and Duchesne County have entered into a surface damage agreement.

Dennis Ingram
Onsite Evaluator

11/6/2013
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 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.

CONFIDENTIAL

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/10/2013

API NO. ASSIGNED: 43013525500000

WELL NAME: Duchesne County 4-5C4

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NWSE 05 030S 040W

Permit Tech Review:

SURFACE: 1561 FSL 1584 FEL

Engineering Review:

BOTTOM: 1561 FSL 1584 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.24619

LONGITUDE: -110.35685

UTM SURF EASTINGS: 554701.00

NORTHINGS: 4455281.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

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

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingling Approved

LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 139-90
- 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
13 - Cement Volume Formation (3a) - 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. BAZA
Division Director

Permit To Drill

Well Name: Duchesne County 4-5C4

API Well Number: 4301352550000

Lease Number: Fee

Surface Owner: FEE (PRIVATE)

Approval Date: 12/30/2013

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 cement from the pipe setting depth back to 2000' MD as indicated in the submitted drilling plan.

Cement volume for the 5" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to TOL in order to adequately isolate the Green River formation.

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

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

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

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

12. COUNTY

13. STATE

UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

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

2. NAME OF OPERATOR:

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

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

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

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

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

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

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

25. TUBING RECORD

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

26. PRODUCING INTERVALS

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

27. PERFORATION RECORD

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

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

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

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

30. WELL STATUS:

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

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

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

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

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) _____ TITLE _____

SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

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

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

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

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

Phone: 801-538-5340

Fax: 801-359-3940

Attachment to Well Completion Report**Form 8 Dated July 14, 2014****Well Name: Duchesne County 4-5C4****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
10532'-10797'	.43	69	Open
10244'-10489'	.43	69	Open
9938'-10218'	.43	69	Open
9713'-9910'	.43	60	Open

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

Depth Interval	Amount and Type of Material
10826'-11080'	5000 gal acid, 3000# 100 mesh, 154980# 20/40 PowerProp
10532'-10797'	5000 gal acid, 3000# 100 mesh, 162480# 20/40 PowerProp
10244'-10489'	5000 gal acid, 3000# 100 mesh, 120160# 20/40 TLC
9938'-10218'	5000 gal acid, 3000# 100 mesh, 120240# 20/40 TLC
9713'-9910'	5000 gal acid, 3000# 100 mesh, 119820# 20/40 TLC



Company: EP Energy
Well: Duchesne County 4-5C4
Location: Duchesne, UT
Rig: Patterson 306

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

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
Tie In	0.00	0.00	0.00												
1	100.00	0.42	189.20	100.00	100.00	-0.37	0.37	S	0.06	W	0.37	189.20	0.42	0.42	189.20
2	200.00	0.12	178.22	100.00	200.00	-0.83	0.83	S	0.12	W	0.84	187.88	0.31	-0.31	-10.98
3	300.00	0.27	186.69	100.00	300.00	-1.17	1.17	S	0.14	W	1.17	186.81	0.16	0.15	8.47
4	400.00	0.33	224.41	100.00	400.00	-1.60	1.60	S	0.37	W	1.65	192.89	0.20	0.06	37.73
5	500.00	0.18	210.43	100.00	499.99	-1.94	1.94	S	0.64	W	2.04	198.38	0.16	-0.15	-13.99
6	600.00	0.34	183.18	100.00	599.99	-2.37	2.37	S	0.74	W	2.48	197.33	0.20	0.16	-27.25
7	700.00	0.31	217.57	100.00	699.99	-2.88	2.88	S	0.92	W	3.02	197.76	0.19	-0.02	34.38
8	800.00	0.34	200.94	100.00	799.99	-3.37	3.37	S	1.20	W	3.58	199.51	0.10	0.03	-16.63
9	900.00	0.51	216.30	100.00	899.99	-4.01	4.01	S	1.57	W	4.31	201.32	0.20	0.17	15.36
10	1000.00	0.49	188.11	100.00	999.98	-4.80	4.80	S	1.89	W	5.15	201.50	0.24	-0.02	-28.19
11	1100.00	0.57	211.69	100.00	1099.98	-5.64	5.64	S	2.21	W	6.06	201.39	0.23	0.08	23.58
12	1200.00	0.59	236.86	100.00	1199.97	-6.35	6.35	S	2.91	W	6.98	204.59	0.25	0.03	25.18
13	1300.00	0.72	230.63	100.00	1299.97	-7.03	7.03	S	3.83	W	8.00	208.55	0.14	0.13	-6.23
14	1400.00	0.88	228.70	100.00	1399.96	-7.93	7.93	S	4.89	W	9.32	211.63	0.16	0.16	-1.93
15	1500.00	0.89	250.99	100.00	1499.95	-8.69	8.69	S	6.20	W	10.68	215.49	0.34	0.01	22.29
16	1600.00	1.10	249.84	100.00	1599.93	-9.28	9.28	S	7.83	W	12.14	220.18	0.21	0.21	-1.15
17	1700.00	1.04	261.02	100.00	1699.91	-9.75	9.75	S	9.63	W	13.71	224.65	0.22	-0.06	11.18
18	1800.00	1.12	257.35	100.00	1799.90	-10.11	10.11	S	11.48	W	15.29	228.64	0.10	0.08	-3.67
19	1900.00	1.27	266.74	100.00	1899.87	-10.38	10.38	S	13.54	W	17.06	232.52	0.25	0.16	9.39
20	2000.00	1.13	271.44	100.00	1999.85	-10.42	10.42	S	15.63	W	18.79	236.31	0.18	-0.15	4.70
21	2100.00	0.99	285.02	100.00	2099.84	-10.17	10.17	S	17.45	W	20.20	239.76	0.28	-0.13	13.58
22	2200.00	0.60	289.95	100.00	2199.83	-9.77	9.77	S	18.78	W	21.17	242.52	0.40	-0.39	4.92
23	2300.00	0.82	275.65	100.00	2299.82	-9.52	9.52	S	19.98	W	22.14	244.53	0.28	0.21	-14.30
24	2400.00	0.91	288.48	100.00	2399.81	-9.20	9.20	S	21.45	W	23.34	246.79	0.22	0.10	12.83
25	2432.00	0.95	285.92	32.00	2431.80	-9.04	9.04	S	21.94	W	23.73	247.61	0.17	0.11	-7.99
26	2596.00	0.85	271.44	164.00	2595.78	-8.64	8.64	S	24.46	W	25.95	250.55	0.15	-0.06	-8.83
27	2690.00	0.71	259.89	94.00	2689.77	-8.72	8.72	S	25.74	W	27.17	251.27	0.22	-0.15	-12.29
28	2784.00	0.75	250.87	94.00	2783.77	-9.03	9.03	S	26.89	W	28.36	251.44	0.13	0.04	-9.60
29	2879.00	0.59	240.36	95.00	2878.76	-9.47	9.47	S	27.90	W	29.47	251.25	0.21	-0.17	-11.06
30	2973.00	0.98	229.37	94.00	2972.75	-10.24	10.24	S	28.93	W	30.69	250.52	0.44	0.41	-11.69
31	3067.00	1.27	236.20	94.00	3066.73	-11.34	11.34	S	30.41	W	32.45	249.55	0.34	0.31	7.27
32	3162.00	1.25	222.27	95.00	3161.71	-12.69	12.69	S	31.98	W	34.41	248.35	0.32	-0.02	-14.66
33	3256.00	1.28	218.01	94.00	3255.69	-14.28	14.28	S	33.32	W	36.25	246.80	0.10	0.03	-4.53
34	3350.00	1.40	227.96	94.00	3349.66	-15.87	15.87	S	34.82	W	38.26	245.49	0.28	0.13	10.59
35	3445.00	1.76	233.71	95.00	3444.62	-17.51	17.51	S	36.85	W	40.80	244.58	0.41	0.38	6.05



Company: EP Energy
Well: Duchesne County 4-5C4
Location: Duchesne, UT
Rig: Patterson 306

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

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
36	3539.00	1.69	225.37	94.00	3538.58	-19.34	19.34	S	39.00	W	43.54	243.62	0.28	-0.07	-8.87
37	3633.00	1.64	228.41	94.00	3632.54	-21.21	21.21	S	41.00	W	46.16	242.65	0.11	-0.05	3.23
38	3728.00	2.01	201.83	95.00	3727.50	-23.66	23.66	S	42.63	W	48.76	240.97	0.96	0.39	-27.98
39	3822.00	2.48	197.04	94.00	3821.42	-27.13	27.13	S	43.84	W	51.56	238.25	0.54	0.50	-5.10
40	3916.00	2.79	191.11	94.00	3915.32	-31.32	31.32	S	44.88	W	54.73	235.09	0.44	0.33	-6.31
41	4011.00	2.40	179.10	95.00	4010.23	-35.58	35.58	S	45.29	W	57.60	231.85	0.70	-0.41	-12.64
42	4105.00	2.26	175.84	94.00	4104.15	-39.40	39.40	S	45.13	W	59.90	228.88	0.21	-0.15	-3.47
43	4199.00	1.96	178.44	94.00	4198.09	-42.85	42.85	S	44.95	W	62.10	226.37	0.33	-0.32	2.77
44	4294.00	2.16	182.74	95.00	4293.02	-46.26	46.26	S	44.99	W	64.53	224.20	0.27	0.21	4.53
45	4388.00	2.66	188.38	94.00	4386.94	-50.19	50.19	S	45.39	W	67.67	222.13	0.59	0.53	6.00
46	4483.00	3.02	197.58	95.00	4481.82	-54.76	54.76	S	46.47	W	71.82	220.32	0.61	0.38	9.68
47	4577.00	2.50	182.72	94.00	4575.72	-59.17	59.17	S	47.32	W	75.76	218.65	0.94	-0.55	-15.81
48	4672.00	2.45	178.57	95.00	4670.63	-63.27	63.27	S	47.36	W	79.03	216.82	0.20	-0.05	-4.37
49	4766.00	2.88	179.74	94.00	4764.53	-67.64	67.64	S	47.30	W	82.54	214.97	0.46	0.46	1.24
50	4860.00	3.24	167.36	94.00	4858.39	-72.59	72.59	S	46.71	W	86.32	212.76	0.80	0.38	-13.17
51	4955.00	4.42	163.62	95.00	4953.18	-78.72	78.72	S	45.09	W	90.72	209.80	1.27	1.24	-3.94
52	5049.00	2.21	157.24	94.00	5047.02	-83.87	83.87	S	43.37	W	94.42	207.34	2.38	-2.35	-6.79
53	5144.00	2.01	161.01	95.00	5141.95	-87.13	87.13	S	42.12	W	96.78	205.80	0.26	-0.21	3.97
54	5238.00	2.00	165.23	94.00	5235.89	-90.28	90.28	S	41.16	W	99.22	204.51	0.16	-0.01	4.49
55	5333.00	2.07	170.85	95.00	5330.83	-93.57	93.57	S	40.47	W	101.95	203.39	0.22	0.07	5.92
56	5427.00	1.11	159.90	94.00	5424.80	-96.11	96.11	S	39.88	W	104.05	202.54	1.07	-1.02	-11.65
57	5522.00	1.13	174.19	95.00	5519.78	-97.90	97.90	S	39.47	W	105.56	201.96	0.29	0.02	15.04
58	5616.00	1.28	179.50	94.00	5613.76	-99.87	99.87	S	39.37	W	107.35	201.51	0.20	0.16	5.65
59	5711.00	1.60	187.88	95.00	5708.73	-102.25	102.25	S	39.54	W	109.63	201.14	0.40	0.34	8.82
60	5806.00	1.60	187.69	95.00	5803.69	-104.88	104.88	S	39.90	W	112.21	200.83	0.01	0.00	-0.20
61	5900.00	0.48	166.17	94.00	5897.67	-106.56	106.56	S	39.98	W	113.81	200.57	1.24	-1.19	-22.89
62	5995.00	0.68	184.43	95.00	5992.67	-107.51	107.51	S	39.93	W	114.68	200.38	0.28	0.21	19.22
63	6089.00	0.38	313.07	94.00	6086.67	-107.85	107.85	S	40.20	W	115.10	200.44	1.03	-0.32	136.85
64	6184.00	0.19	234.33	95.00	6181.67	-107.73	107.73	S	40.56	W	115.11	200.63	0.41	-0.20	-82.88
65	6278.00	0.51	17.16	94.00	6275.67	-107.42	107.42	S	40.56	W	114.82	200.69	0.71	0.34	-231.03
66	6372.00	0.21	183.70	94.00	6369.66	-107.19	107.19	S	40.45	W	114.57	200.68	0.76	-0.32	177.17
67	6467.00	0.51	34.05	95.00	6464.66	-107.01	107.01	S	40.23	W	114.33	200.60	0.74	0.32	-157.53
68	6561.00	0.11	143.70	94.00	6558.66	-106.74	106.74	S	39.94	W	113.97	200.51	0.59	-0.43	116.65
69	6655.00	1.23	353.14	94.00	6652.66	-105.81	105.81	S	40.01	W	113.12	200.71	1.41	1.19	222.81
70	6750.00	0.44	236.44	95.00	6747.65	-105.00	105.00	S	40.43	W	112.52	201.06	1.56	-0.83	-122.84
71	6845.00	1.73	289.66	95.00	6842.63	-104.72	104.72	S	42.09	W	112.86	201.89	1.59	1.36	56.02
72	6939.00	1.88	283.33	94.00	6936.58	-103.89	103.89	S	44.92	W	113.18	203.38	0.27	0.16	-6.73



Company: EP Energy
Well: Duchesne County 4-5C4
Location: Duchesne, UT
Rig: Patterson 306

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

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates				Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction	Direction	Azimuth			
73	7034.00	1.64	303.77	95.00	7031.54	-102.77	102.77	S	47.57	W	113.25	204.84	0.70	-0.25	21.52
74	7128.00	1.20	283.34	94.00	7125.51	-101.80	101.80	S	49.64	W	113.26	206.00	0.71	-0.47	-21.73
75	7223.00	1.25	262.31	95.00	7220.49	-101.71	101.71	S	51.64	W	114.07	206.92	0.47	0.05	-22.14
76	7317.00	1.42	243.97	94.00	7314.46	-102.36	102.36	S	53.70	W	115.59	207.68	0.49	0.18	-19.51
77	7412.00	1.09	285.62	95.00	7409.44	-102.63	102.63	S	55.63	W	116.74	208.46	0.99	-0.35	43.84
78	7506.00	0.99	272.80	94.00	7503.43	-102.35	102.35	S	57.30	W	117.30	209.24	0.27	-0.11	-13.64
79	7601.00	1.14	236.06	95.00	7598.41	-102.84	102.84	S	58.91	W	118.51	209.80	0.72	0.16	-38.67
80	7695.00	0.61	302.06	94.00	7692.40	-103.09	103.09	S	60.11	W	119.33	210.24	1.12	-0.56	70.21
81	7789.00	0.77	335.23	94.00	7786.40	-102.25	102.25	S	60.79	W	118.96	210.73	0.45	0.17	35.29
82	7884.00	0.61	252.10	95.00	7881.39	-101.83	101.83	S	61.54	W	118.98	211.15	0.97	-0.17	-87.51
83	7978.00	1.22	221.58	94.00	7975.38	-102.73	102.73	S	62.68	W	120.34	211.39	0.81	0.65	-32.47
84	8072.00	0.96	229.47	94.00	8069.36	-103.99	103.99	S	63.95	W	122.08	211.59	0.32	-0.28	8.39
85	8167.00	1.19	222.62	95.00	8164.35	-105.23	105.23	S	65.22	W	123.81	211.79	0.28	0.24	-7.21
86	8264.00	1.39	230.56	97.00	8261.32	-106.72	106.72	S	66.81	W	125.91	212.05	0.28	0.21	8.19
87	8356.00	0.90	255.38	92.00	8353.30	-107.61	107.61	S	68.37	W	127.50	212.43	0.75	-0.53	26.98
88	8450.00	0.89	241.71	94.00	8447.29	-108.15	108.15	S	69.73	W	128.68	212.81	0.23	-0.01	-14.54
89	8545.00	1.04	210.59	95.00	8542.28	-109.24	109.24	S	70.82	W	130.18	212.95	0.57	0.16	-32.76
90	8639.00	1.09	223.47	94.00	8636.26	-110.62	110.62	S	71.87	W	131.92	213.01	0.26	0.05	13.70
91	8733.00	1.79	233.49	94.00	8730.23	-112.14	112.14	S	73.66	W	134.17	213.30	0.79	0.74	10.66
92	8828.00	2.38	256.59	95.00	8825.17	-113.48	113.48	S	76.77	W	137.01	214.08	1.07	0.62	24.32
93	8922.00	2.17	305.75	94.00	8919.11	-112.90	112.90	S	80.11	W	138.43	215.36	2.02	-0.22	52.30
94	9017.00	2.50	313.73	95.00	9014.03	-110.41	110.41	S	83.07	W	138.17	216.96	0.49	0.35	8.40
95	9111.00	1.54	324.22	94.00	9107.97	-107.97	107.97	S	85.29	W	137.60	218.31	1.09	-1.02	11.16
96	9205.00	0.32	3.58	94.00	9201.95	-106.69	106.69	S	86.01	W	137.04	218.88	1.39	-1.30	-341.11
97	9300.00	1.14	130.37	95.00	9296.95	-107.03	107.03	S	85.28	W	136.85	218.55	1.43	0.86	133.46
98	9394.00	1.19	127.50	94.00	9390.93	-108.23	108.23	S	83.79	W	136.88	217.75	0.08	0.05	-3.05
99	9488.00	0.47	137.20	94.00	9484.92	-109.11	109.11	S	82.75	W	136.94	217.18	0.78	-0.77	10.32
100	9560.00	0.58	179.17	72.00	9556.92	-109.69	109.69	S	82.55	W	137.28	216.96	0.54	0.15	58.29
101	9590.00	0.57	199.64	30.00	9586.91	-109.98	109.98	S	82.60	W	137.54	216.91	0.68	-0.03	68.23
102	9700.00	0.26	227.25	110.00	9696.91	-110.67	110.67	S	82.96	W	138.31	216.86	0.33	-0.28	25.10
103	9800.00	0.83	161.89	100.00	9796.91	-111.51	111.51	S	82.91	W	138.95	216.63	0.76	0.57	-65.35
104	9900.00	1.54	177.54	100.00	9896.89	-113.55	113.55	S	82.62	W	140.43	216.04	0.78	0.71	15.65
105	10000.00	1.74	170.61	100.00	9996.84	-116.39	116.39	S	82.32	W	142.56	215.27	0.28	0.20	-6.93
106	10100.00	2.00	171.34	100.00	10096.79	-119.61	119.61	S	81.81	W	144.91	214.37	0.26	0.26	0.73
107	10200.00	2.37	172.83	100.00	10196.72	-123.38	123.38	S	81.29	W	147.75	213.38	0.38	0.37	1.48
108	10300.00	2.68	173.70	100.00	10296.62	-127.75	127.75	S	80.77	W	151.14	212.30	0.31	0.31	0.87
109	10400.00	2.88	177.38	100.00	10396.50	-132.58	132.58	S	80.40	W	155.05	211.23	0.27	0.20	3.68



Company: EP Energy
Well: Duchesne County 4-5C4
Location: Duchesne, UT
Rig: Patterson 306

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

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
110	10500.00	3.02	180.87	100.00	10496.37	-137.72	137.72	S	80.33	W	159.44	210.25	0.23	0.14	3.50
111	10600.00	3.05	181.58	100.00	10596.23	-143.02	143.02	S	80.44	W	164.09	209.36	0.05	0.03	0.71
112	10700.00	3.22	183.83	100.00	10696.08	-148.48	148.48	S	80.70	W	168.99	208.53	0.20	0.16	2.25
113	10800.00	2.97	184.28	100.00	10795.94	-153.86	153.86	S	81.08	W	173.92	207.79	0.24	-0.24	0.45
114	10900.00	3.26	177.01	100.00	10895.79	-159.29	159.29	S	81.13	W	178.76	206.99	0.49	0.29	-7.27
115	11000.00	3.12	174.95	100.00	10995.63	-164.84	164.84	S	80.74	W	183.55	206.10	0.18	-0.14	-2.07
116	11100.00	3.60	178.75	100.00	11095.46	-170.69	170.69	S	80.43	W	188.69	205.23	0.53	0.48	3.81
117	11200.00	3.57	180.92	100.00	11195.27	-176.94	176.94	S	80.41	W	194.35	204.44	0.14	-0.03	2.17
118	11300.00	3.53	180.78	100.00	11295.07	-183.12	183.12	S	80.51	W	200.04	203.73	0.04	-0.04	-0.14
119	11400.00	3.47	182.37	100.00	11394.89	-189.22	189.22	S	80.67	W	205.70	203.09	0.11	-0.06	1.59
120	11500.00	3.59	184.45	100.00	11494.70	-195.36	195.36	S	81.04	W	211.50	202.53	0.17	0.12	2.07
121	11600.00	4.06	186.26	100.00	11594.48	-202.00	202.00	S	81.67	W	217.88	202.01	0.49	0.48	1.81
122	11700.00	4.33	183.58	100.00	11694.21	-209.29	209.29	S	82.29	W	224.88	201.46	0.33	0.27	-2.67
123	11800.00	4.34	179.88	100.00	11793.92	-216.84	216.84	S	82.52	W	232.01	200.83	0.28	0.00	-3.70
124	11900.00	4.39	179.41	100.00	11893.63	-224.45	224.45	S	82.47	W	239.12	200.18	0.07	0.06	-0.47
125	12000.00	4.70	181.94	100.00	11993.32	-232.37	232.37	S	82.57	W	246.61	199.56	0.37	0.31	2.53
126	12100.00	4.72	183.04	100.00	12092.98	-240.58	240.58	S	82.93	W	254.47	199.02	0.09	0.02	1.10
127	12200.00	4.43	181.41	100.00	12192.66	-248.55	248.55	S	83.24	W	262.12	198.52	0.32	-0.29	-1.63
128	12300.00	4.68	182.30	100.00	12292.34	-256.49	256.49	S	83.50	W	269.74	198.03	0.26	0.25	0.89
129	12391.00	4.49	174.54	91.00	12383.05	-263.73	263.73	S	83.31	W	276.58	197.53	0.71	-0.21	-8.53
130	12500.00	4.49	174.54	109.00	12491.72	-272.22	272.22	S	82.50	W	284.45	196.86	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: Duchesne County 4-5C4
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 4301352550000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext
9. FIELD and POOL or WILDCAT: ALTAMONT	4. LOCATION OF WELL FOOTAGES AT SURFACE: 1561 FSL 1584 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 05 Township: 03.0S Range: 04.0W Meridian: U
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/31/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Please see attached procedure with before and after wellbore diagrams.

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

Date: _____

By:

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/28/2016	

Duchesne County 4-5C4 Recom Summary Procedure

- POOH with rods, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- Set 15k CBP for 5" 18# casing @ 9,470'. Dump bail 15' CMT on CBP @ 9,470'
- Stage 1:
 - Perforate new LGR interval from **9,032' – 9,143'**.
 - Acid Frac Perforations with **10,000** gals 15% HCl acid (Stage 1 Recom).
- Stage 2:
 - RIH with 7" CBP & set @ 8,968'.
 - Perforate new LGR interval from **8,801' – 8,953'**.
 - Prop Frac Perforations with **80,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **9,000** gals 15% HCl acid) (Stage 2 Recom).
- Stage 3:
 - RIH w/ 7" CBP & set @ 8,709'.
 - Perforate new LGR interval from **8,616' – 8,694'**.
 - Prop Frac perforations with **40,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **7,000** gals 15% HCl acid) (Stage 3 Recom).
- Stage 4:
 - RIH w/ 7" CBP & set @ 8,586'.
 - Perforate new LGR interval from **8,415' – 8,571'**.
 - Prop Frac perforations with **80,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **10,000** gals 15% HCl acid) (Stage 4 Recom).
- Clean out well drilling up (3) 7" CBPs, leaving 5" 15k CBP @ 9,470' w/ 15' CMT. (PBTD @ 9,455'). Top perf BELOW plugs @ 9,713'.
- RIH w/ production tubing and rods.
- Clean location and resume production.



Current Wellbore Schematic

Well Name: **Duchesne County 4-5C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 14' 46.736" N Long: 110 21' 24.384" W**
 Producing Zone(s): **Upper Wasatch**

Last Updated: **9/25/2014**
 By: **Krug**
 TD: **12,500**
 API: **4301352550000**
 AFE: **161142**

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

~265 Jts 2-7/8" 6.5# N-80 8rd Tubing

ROD DETAIL
 1-1/2" x 40' Polished Rod
 98 (2,450') - 1" EL Rods W/G
 116 (2,900') - 7/8" EL Rods W/G
 116 (2,900') - 3/4" EL Rods W/G
 18 (450') - 1 1/2" Sinker "K" Bars
 3' x 3/4" Stabilizer Sub
 2 1/2" x 1-3/4" x 38' Insert Pump

13-3/8" 54.5# J-55 STC @ 653 ft. MD

Estimated 7" TOC: 3,500 ft MD

9-5/8" 40# N-80 LTC @ 2500 ft. MD

Tubing Anchor @ ~8,679'
 4 jts 2-7/8" 6.5# N-80 8rd Tubing
 4' x 2-7/8" pup jt
 Seating Nipple @ ~8,816'
 2' x 2 7/8" Tubing Sub
 5 1/2" x 32" PBGA
 2 jt 2-7/8" Mud Anchor
 Bull Plug/No-Go Nipple
 EOT @ ~8,919'

Poor 7" CMT below 9,200'

Top of Liner at: 9,427 ft MD

7" 29# HCP-110 LTC @ 9650 ft. MD

Drift ID = 6.059"

Liner TOC at: 9,427 ft MD

Initial Completion Perf Information

Stage #	Interval	Shots	Fluids
Stage #8	9713 - 9910	20' /60 shots	5000 gal HCL & 119,820 lbs TLC 30/50
Stage #7	9938 - 10218	23' /69 shots	5000 gal HCL & 120,240 lbs TLC 30/50
Stage #6	10244 - 10489	23' /69 shots	5000 gal HCL & 120,160 lbs TLC 30/50
Stage #5	10532 - 10797	23' /69 shots	5000 gal HCL & 162,480 lbs Power Prop 20/40
Stage #4	10826 - 11080	23' /69 shots	5000 gal HCL & 154,980 lbs Power Prop 20/40
Stage #3	11099 - 11482	23' /69 shots	5000 gal HCL & 140,040 lbs Power Prop 20/40
Stage #2	11506 - 11870	23' /69 shots	5000 gal HCL & 140,160 lbs Power Prop 20/40
Stage #1	11907 - 12270	22' /66 shots	5000 gal HCL & 139,900 lbs Power Prop 20/40

Marker Joint 1 at: 10,478 ft MD

Long Joint 2 at: 11,494 ft MD

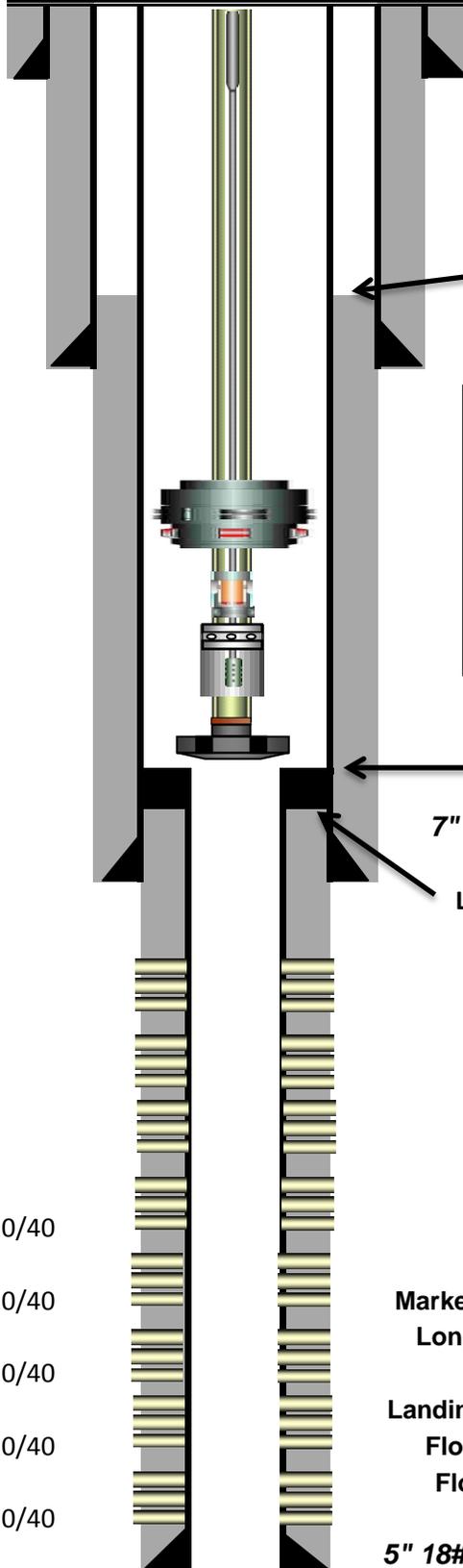
Landing Collar @ 12,401 ft

Float Collar @ 12,450 ft

Float Shoe @ 12,500 ft

5" 18# HCP-110 STL @ 9427 - 12500 ft. MD

Drift ID = 4.151"





Proposed Recom Wellbore Schematic

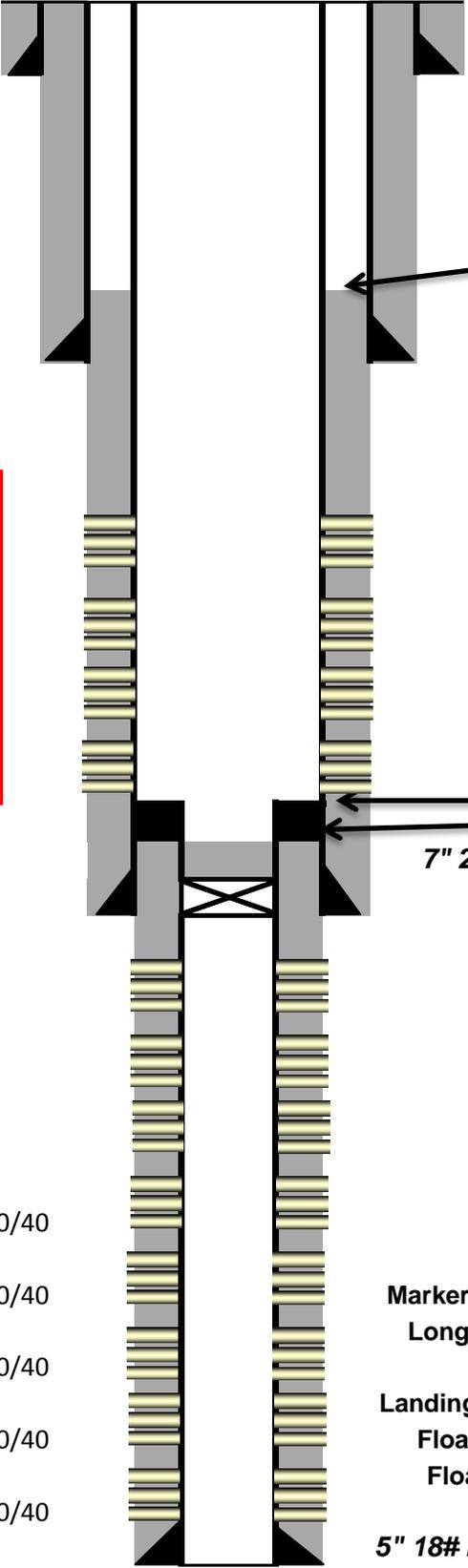
Well Name: **Duchesne County 4-5C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 14' 46.736" N Long: 110 21' 24.384" W**
 Producing Zone(s): **Upper Wasatch**

Last Updated: **3/24/2016**
 By: **Krug**
 TD: **12,500**
 API: **4301352550000**
 AFE: **161142**

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

~265 Jts 2-7/8" 6.5# N-80 8rd Tubing

April 2016 Recom	
STG 4: 8,415' - 8,571' (18'/54 holes)	10,000 Gals Acid + 6,000 lbs 100M + 80,000 lbs 30/50
STG 3: 8,616' - 8,694' (14'/42 holes)	7,000 Gals Acid + 6,000 lbs 100M + 40,000 lbs 30/50
STG 2: 8,801' - 8,953' (18'/54 holes)	9,000 Gals Acid + 6,000 lbs 100M + 80,000 lbs 30/50
STG 1: 9,032' - 9,143' (21'/63 holes)	10,000 Gals Acid



13-3/8" 54.5# J-55 STC @ 653 ft. MD

Estimated 7" TOC: 3,500 ft MD

9-5/8" 40# N-80 LTC @ 2500 ft. MD

Top of Liner at: 9,427 ft MD

Liner TOC at: 9,427 ft MD

7" 29# HCP-110 LTC @ 9650 ft. MD

Drift ID = 6.059"

CBP @ 9,470' w/ 15' CMT

Marker Joint 1 at: 10,478 ft MD

Long Joint 2 at: 11,494 ft MD

Landing Collar @ 12,401 ft

Float Collar @ 12,450 ft

Float Shoe @ 12,500 ft

5" 18# HCP-110 STL @ 9427 - 12500 ft. MD

Drift ID = 4.151"

Initial Completion Perf Information

- Stage #8** 9713 - 9910 20' /60 shots
5000 gal HCL & 119,820 lbs TLC 30/50
- Stage #7** 9938 - 10218 23' /69 shots
5000 gal HCL & 120,240 lbs TLC 30/50
- Stage #6** 10244 - 10489 23' /69 shots
5000 gal HCL & 120,160 lbs TLC 30/50
- Stage #5** 10532 - 10797 23' /69 shots
5000 gal HCL & 162,480 lbs Power Prop 20/40
- Stage #4** 10826 - 11080 23' /69 shots
5000 gal HCL & 154,980 lbs Power Prop 20/40
- Stage #3** 11099 - 11482 23' /69 shots
5000 gal HCL & 140,040 lbs Power Prop 20/40
- Stage #2** 11506 - 11870 23' /69 shots
5000 gal HCL & 140,160 lbs Power Prop 20/40
- Stage #1** 11907 - 12270 22' /66 shots
5000 gal HCL & 139,900 lbs Power Prop 20/40

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

RECOMPLETION

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

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

U . S . B . & M .

12. COUNTY

13. STATE

UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

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

2. NAME OF OPERATOR:

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

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

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

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

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

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

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

25. TUBING RECORD

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

26. PRODUCING INTERVALS

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

27. PERFORATION RECORD

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

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

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

30. WELL STATUS:

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

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

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

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

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) _____ TITLE _____

SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

- completing or plugging a new well
- 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

CENTRAL DIVISION

ALTAMONT FIELD
DUCHESNE COUNTY 4-5C4
DUCHESNE COUNTY 4-5C4
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	DUCHESNE COUNTY 4-5C4		
Project	ALTAMONT FIELD	Site	DUCHESNE COUNTY 4-5C4
Rig Name/No.		Event	RECOMPLETE LAND
Start date	4/1/2016	End date	4/10/2016
Spud Date/Time	4/11/2014	UWI	DUCHESNE COUNTY 4-5C4
Active datum	KB @6,014.6usft (above Mean Sea Level)		
Afe No./Description	166538/56460 / DUCHESNE COUNTY 4-5C4		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
4/1/2016	8:30 9:00	0.50	WOR	28		P		HELD SAFETY MEETING ON RIGGING UP RIG. FILLED OUT AND REVIEWED JSA.
	9:00 10:00	1.00	MIRU	01		P		MIRU SERVICE RIG WHILE PUMPING 80 BBLs DOWN CSG.
	10:00 11:30	1.50	WOR	18		P		TRIED TO WORK PUMP OFF SEAT . PARTED RODS. UNABLE TO FLUSH TBG.
	11:30 13:30	2.00	WOR	39		P		TOOH W/ 98-1", 116-7/8", 116-3/4", 18-1 1/2" C-BARS, 3' STABILIZER SUB AND PULLROD, PULL ROD PARTED TOP 10' WAS WORE ON ONE SIDE.
	13:30 15:30	2.00	WLWORK	21		P		RU WIRELINE RIH PERFORATED TBG @ 8720', RD WIRELINE
	15:30 17:30	2.00	WOR	16		P		ND WELLHEAD. LANDED TBG WITH 6' TBG SUB AND HANGER NU AND TESTED 5K BOP @ 4800 PSI HELD, RU RIG FLOOR RELEASED TAC.CLOSED IN WELL CLOSED AND LOCKED PIPE RAMS,LEFT CSG OPENED TO TREATER SDFN
4/2/2016	6:00 7:30	1.50	WOR	28		N		CREW TRAVEL HELD SAFETY MEETING ON BLEEDING DOWN WELL. FILLED OUT AND REVIEWED JSA.
	7:30 8:30	1.00	WOR	06		P		50 TSIP, 50 CSIP. BLED DOWN WELL FLUSHED TBG W/ 40 BBLs,
	8:30 14:00	5.50	WOR	39		P		RU SCANNERS. SCANNED TBG OUT OF WELL. SCANNED 268-JTS 2 67/8 L-80 EUE TBG.174- JTS YELLOW, 71-JTS BLUE AND 23-JTS RED. RD SCANNERS. LD PRODUCTION BHA.
	14:00 18:30	4.50	WLWORK	26		P		RU WIRELINE. RIH W/ 6" AND 4" GR/JBS, RIH SET 5" 15K MAGNUM CBP @ 9470', DUMPED BAILED 15' CEM. RD WIRELINE. CLOSED IN WELL CLOSED AND LOCKED BLIND RAMS. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS.
4/3/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY
4/4/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY
4/5/2016	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 13:30	6.00	WOR	16		P		50 CSIP. BLED DOWN WELL, ND 5K BOPE, NU 7" MANUAL FRAC VALVE, FILLED CSG W/ 240 BBLs 2% KCL PRESASURE TEST CSG @ 8000 PSI HELD. BLED DOWN PRESSURE. NU 7" HCR VALVE, GOAT HEAD, 7" HCR VALVE AND WIRELINE LINE FLANGE. PRESSURE TESTED @ 9500 PSI HELD. RAN FLOWBACK LINES AND TESTED @ 8000 PSI HELD.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	13:30 16:30	3.00	WLWORK	21		P		RU WIRELINE. PERFORATED STAGE # 1 FROM 9143' TO 9032'. ALL PERFS CORRELATED TO LONE WOLF RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 5/13/2014. 21 NET FT. 63 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1000 PSI. FINAL PRESSURE 150 PSI. RD WIRELINE SHUT IN WELL, CLOSED AND LOCKED FRAC VALVES. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
4/6/2016	6:00 7:30	1.50	SITEPRE	28		P		CREW TRAVEL HELD SAFETY MEETING ON RIGGING UP MANIFOLD TO FRAC TANKS. FILLED OUT AND REVIEWED JSA.
	7:30 10:00	2.50	SITEPRE	01		P		RIG UP MANIFLOD TO FRAC TANKS. TREATED FRAC TANKS W/ BLEACH.
	10:00 18:30	8.50	SITEPRE	18		P		MOVE IN HOT OILERS START HEATING FRAC WATER. STARTED MOVING IN FRAC EQUIPMENT @1330. CONTINUED HEATING WATER
4/7/2016	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 9:00	1.50	MIRU	01		P		STARTED EQUIPMENT FINISHED. FINISHED RIGGING UP LINES. AND PRESSURE TESTED @ 9500 PSI HELD.
	9:00 10:00	1.00	STG01	35		P		OPENED WELL W/ 262 PSI. BREAK DOWN STAGE # 1 PERFS @ 3179 PSI 5.9 BPM. EST INJECTION RATE 54.2 BPM 3720 PSI. I.S.I.P. 1754 PSI F.G. .63. 5 MIN 1201 PSI, 10 MIN 1068 PSI, 15 MIN 1002 PSI. TREATED PERFS W/ 11552 GALS 15% HCL ACID. DROPPED 80 BIO BALLS EVERY 2000 GALS. AVG RATE 34.1 BPM, MAX RATE 50.2 BPM. AVG PRESS 2750 PSI, MAX PRESS 7599 PSI. I.S.I.P. 1859 PSI, F.G. .638. 5 MIN 1551 PSI. 10 MIN 1461 PSI. SHUT IN WELL. 732 BBLS TO RECOVER. TURNED WELL OVER TO WIRELINE.
	10:00 12:20	2.33	STG02	21		P		RU WIRELINE. RIH SET CBP @ 8968' W/ 1000 PSI. PERFORATED STAGE # 2 FROM 8953' TO 8801'. ALL PERFS CORRELATED TO LONE WOLF RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 5/13/2014. 18 NET FT. 54 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1000 PSI. FINAL PRESSURE 900 PSI. RD WIRELINE TURNED WELL OVER TO FRAC CREW.
	12:20 13:30	1.17	STG02	35		P		PRESSURE TEST LINES @ 9508 PSI. OPENED WELL W/ 852 PSI. BREAK DOWN STAGE # 2 PERFS @ 1604 PSI, 6.3 BPM. TREATED PERFS W/ 8849 GALS 15% HCL ACID. FLUSHED TO BTM PERF 342 BBLS. ISIP. 1307 F.G. .58. 5 MIN 1088 PSI, 10 MIN 956 PSI 15 MIN 883 PSI. PUMPED 6006 LBS 100 MESH IN 1/2 PPG STAGE AND 81853 LBS WHITE 30/50. IN .5#, 1#, 1.75# AND 2.5# STAGES. AVG RATE 74.9 BPM, MAX RATE 76.6 BPM. AVG PRESS 2778 PSI, MAX PRESS 3547 PSI. I.S.I.P. 1791 PSI. F.G. .635. 5 MIN 1425 PSI, 10 MIN 1309 PSI. SHUT WELL IN. 3100 BBLS TO RECOVER TURN WELL OVER TO WIRELINE
13:30 15:40	2.17	STG03	21		P		RU WIRELINE. RIH SET CBP @ 8709' W/ 600 PSI. PERFORATED STAGE # 3 FROM 8694' TO 8616'. ALL PERFS CORRELATED TO LONE WOLF RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 5/13/2014. 14 NET FT. 42 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 600 PSI. FINAL PRESSURE 400 PSI. RD WIRELINE TURNED WELL OVER TO FRAC CREW.	

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	15:40 17:00	1.33	STG03	35		P		PRESSURE TEST LINES @ 9500 PSI. OPENED WELL W/ 300 PSI. BREAK DOWN STAGE # 3 PERFS @ 2180 PSI, 6.4 BPM. TREATED PERFS W/ 6705 GALS 15% HCL ACID. FLUSHED TO BTM PERF 328 BBLS. ISIP. 1537 F.G. .61. 5 MIN 1250 PSI, 10 MIN 1078 PSI 15 MIN 958 PSI. PUMPED 6705 LBS 100 MESH IN 1/2 PPG STAGE AND 39959 LBS WHITE 30/50. IN .5#, 1# AND 1.75# STAGES. AVG RATE 74.5 BPM, MAX RATE 76.6 BPM. AVG PRESS 3523 PSI, MAX PRESS 4165 PSI. I.S.I.P. 2008 PSI. F.G. .665. 5 MIN 1676 PSI, 10 MIN 1617 PSI. SHUT WELL IN. 2454 BBLS TO RECOVER TURN WELL OVER TO WIRELINE
	17:00 19:00	2.00	STG04	21		P		RU WIRELINE. RIH SET CBP @ 8556' W/ 1300 PSI. PERFORATED STAGE # 4 FROM 8570' TO 8415'. ALL PERFS CORRELATED TO LONE WOLF RADIAL CBL, GAMMA RAY, CCL LOG RUN #1 DATED 5/13/2014. 18 NET FT. 54 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 SPF, 120 PHASING. STARTING PRESSURE 1300 PSI. FINAL PRESSURE 1200 PSI. RD WIRELINE. CLOSED IN WELL. , CLOSED AND LOCKED FRAC VALVES. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
4/8/2016	6:00 7:30	1.50	STG04	28		P		CREW TRAVEL HELD SAFETY MEETING ON RED ZONE. FILLED OUT AND REVIEWED JSA.
	7:30 9:00	1.50	STG04	35		P		PRESSURE TEST LINES @ 9500 PSI. OPENED WELL W/ 221 PSI. BREAK DOWN STAGE # 4 PERFS @ 1805 PSI, 6.1 BPM. TREATED PERFS W/ 8,204 GALS 15% HCL ACID. FLUSHED TO BTM PERF 324 BBLS. ISIP. 1809 F.G. .65. 5 MIN 1632 PSI, 10 MIN 1535 PSI 15 MIN 1460 PSI. PUMPED 5979 LBS 100 MESH IN 1/2 PPG STAGE AND 78148 LBS WHITE 30/50. IN .5#, 1#, 1.75# AND 2.5# STAGES. AVG RATE 75.4 BPM, MAX RATE 76.5 BPM. AVG PRESS 3281 PSI, MAX PRESS 4060 PSI. I.S.I.P. 2287 PSI. F.G. .702. 5 MIN 1906 PSI, 10 MIN 1792 PSI. SHUT WELL IN. 3024 BBLS TO RECOVER.
	9:00 12:00	3.00	RDMO	02		P		RD FRAC EQUIPMENT AND MOVE IT OFF LOCATION. RAN FLOWLINE TO TREATER.
	12:00 6:00	18.00	FB	19		P		OPENED WELL @ 12:00. PSI ON 12/64 CHOKE. 350 PSI, 16//64 CHOKE. RECOVERED 0 MCF, 0 BBLS OIL AND 557 BBLS H2O.
4/9/2016	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON FLOWBACK PROCEDURES. FILLED OUT AND REVIEWED JSA.
	6:30 6:30	0.00	FB	19		P		50 PSI, 64//64 CHOKE. RECOVERED 0 MCF, 0 BBLS OIL AND 666 BBLS H2O.
4/10/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON WELL CONTROL. FILLED OUT AND REVIEWED JSA
	7:30 9:30	2.00	WOR	16		P		WELLOPENED TO FLOWBACK TANK WIDE OPEN ON 2" LINE, 0 PSI. ND FRAC STACK TO BTM 7" MASTER VALVE, NU AND TESTED 5K BOP @ 4500 PSI. HELD.
	9:30 11:00	1.50	WOR	06		P		RU RIG FLOOR WHILE PUMPING 100 BBLS OF 10# BRINE DOWN CSG
	11:00 15:30	4.50	WOR	39		P		TALLIED AND RIH W/ 6" BIT, BIT SUB AND (178 OUT OF DERRICK, PU 87OFF TRAILER) JTS 2 7/8 L-80 EUE TBG TAGGED SAND @ 8554'.
	15:30 19:00	3.50	WOR	10		P		RU POWER SWIVEL. BREAK REVERSE CIRC. PUMPING 3 BPM RETURNING 3 BPM. WASHED SAND DOWN TO CBP SET @ 8586' DRILLED CBP, CIRC TBG CLEAN. PUMPED 10 BBLS BRINE DOWN TBG, RD POWER SWIVEL TOO H W/ 10-JTS 2 7/8 L-80 EUE TBG. EOT @ 8256'. CLOSED IN WELL. CLOSED AND LOCKED PIPE RAMS. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. CLOSED TIW VALVE AND INSTALLED NIGHT CAP. SDFN.
4/11/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL. HELD SAFETY MEETING ON DRILLING CBP. FILLEDOUT AND REVIEWED JSA.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	7:30 8:30	1.00	WOR	39		P		100 TSIP 100 CSIP, OPENED CSG TO FLOWBACK TANK. TBG DIED. LSFT CSG FLOWING TO TANK, RIH W/ 13-JTS 2 7/8 L-80 EUE TBG, TAGGED REMAINS OF CBP SAND @ 8700'. RU POWER SWIVEL.
	8:30 18:00	9.50	WOR	10		P		BREAK REVERSE CIRCULATION, PUMPING 3 BPM RETURNING 2.5 BPM. FINISHED DRILLING REMAINS OF CBP AND WASHED OUT SAND FROM 8700' TO CBP SET @ 8709', DRILLED OUT CBP CIRCULATE TBG CLEAN. CONTINUE RIH TAGGED REMAINS OF CBP AND SAND @ 8938' FINISHED DRILLING OUT CBP AND WASHED SAND TO CBP @ 8968'. DRILLED OUT CBP CHASED TO LINER TOP @ 9427' FINISHED DRILLING REMAINS OF CBP. CIRCULATE TBG CLEAN. TOOH W/ 36-JTS 2 7/8 L-80 EUE TBG. EOT 8296'. CLOSED AND LOCKED PIPE RAMS. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. CLOSED TIW VALVE AND INSTALLED NIGHT CAP. SDFN.
4/12/2016	6:00 8:30	2.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON WELL CONTROL FILLED OUT AND REVIEWED JSA.
	8:30 11:30	3.00	WOR	06		P		150 CSIP, 0 TSIP. CIRCULATE WELL W/ 310 BBLs 10# BRINE. TBG ON VACUUM, CSG DEAD.
	11:30 13:30	2.00	WOR	39		P		TOOH W/ 188-JTS 2 7/8 L-80 EUE TBG, EOT @ 2546'
	13:30 14:30	1.00	WOR	06		P		EOT 2546 PUMPED 130 BBLs 10# BRIN DOWN CSG, OPENED WELL. WELL DEAD.
	14:30 15:15	0.75	WOR	39		P		TOOH W/ 77-JTS 2 7/8 L-80 EUE TBG, BIT SUB AND BIT.
	15:15 19:30	4.25	WOR	39		P		RIH W/ 5 3/4 NO-GO, 2-JTS 2 7/8 L-80 EUE TBG, 5 1/2 PBGA, 2-2 'X 2 7/8 N-80 EUE TBG SUBS, MECHANICAL SN, 2 7/8 X 2 1/4" X 40' TBG PUMP BARREL, 4' X 2 7/8 N-80 TBG SUB, RU HYDROTESTER RIH HYDROTESTING @ 8500 PSI W/ 4-JTS 2 7/8 L-80 EUE TBG, KLX TAC, AND 111- JTS 2 7/8 L-80 EUE TBG FOUND NO LEAKS. EOT @ 4110' . CLOSED AND LOCKED PIPE RAMS. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. CLOSED TIW VALVE AND INSTALLED NIGHT CAP. SDFN.
4/13/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON HYDROTESTING TUBING. FILLED OUT AND REVIEWED JSA.
	7:30 9:00	1.50	WOR	06		P		200 CSIP, 100 TSIP. BLED OF GAS, REVERSED CIRCULATED WELL W/ 170 BBLs 10# BRINE, WELL DIED.
	9:00 12:00	3.00	WOR	40		P		RU HYDROTESTER RIH HYDROTESTING @ 8500 PSI W/ 138-JTS 2 7/8 L-80 EUE TBG. FOUND NO LEAKS, RD HYDROTESTER.
	12:00 14:30	2.50	WOR	35		P		SET TAC @ 8111', SN @ 8289' AND EOT @ 8393. LANDED TBG W/ 6' SUB AND HANGER. ND BOP AND MANUAL FRAC VALVE. REMOVED HANGER AND 6' TBG SUB. LANDED TBG ON B-FLANGE. NU WELLHEAD
	14:30 16:00	1.50	WOR	06		P		FLUSHED TBG W/ 50 BBLs 2 % KCL, DROPPED STANDING VALVE. PUMPED 40 BBLs 10# BRINE, 10 GALS CORROSION INHIBITOR AND 15 BBLs 10# BRINE STANDING VALVE DIDN'T SEAT.
	16:00 20:30	4.50	WOR	39		P		RIH W/ 2 1/4" PLUNGER, 1 1/2" X 40' POLISH ROD, 3' X 3/4" STABILIZER SUB, 13-1 1/2" C-BARS, 85-3/4", 129-7/8 AND 100- 1" SPACED OUT RODS W/ 2-2', 1-8" EL ROD SUBS. FILLED TBG WITH 8 BBLs, PRESSURE AND STROKE TEST @ 1000 PSI. SDFN. CLOSED ALL FLOWLINE VALVES.
4/14/2016	6:00 7:30	1.50	WOR	28		P		HAD SAFETY STAND DOWN AT PEAKS OFFICE, CREW TRAVEL HELD SAFETY MEETING ON RD RIG, FILLED OUT AND REVIEWED JSA.
	7:30 9:30	2.00	RDMO	02		P		STROKE TEST PUMP TO 1000 PSI HELD, RD RIG SLIDE IN ROTA-FLEX, HANG OFF RODS PUT WELL ON PRODUCTION.