

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 Kozar 1-4C4							
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') Julian Kozar						14. SURFACE OWNER PHONE (if box 12 = 'fee') 9493462247							
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 27636 Ynez Road L-7 #309, Temecula, CA 92591						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		870 FNL 700 FWL		NWNW		4		3.0 S		4.0 W		U	
Top of Uppermost Producing Zone		870 FNL 700 FWL		NWNW		4		3.0 S		4.0 W		U	
At Total Depth		870 FNL 700 FWL		NWNW		4		3.0 S		4.0 W		U	
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 700			23. NUMBER OF ACRES IN DRILLING UNIT 640							
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 700			26. PROPOSED DEPTH MD: 13000 TVD: 13000							
27. ELEVATION - GROUND LEVEL 6076			28. BOND NUMBER 400JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City							
Hole, Casing, and Cement Information													
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight			
Cond	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 - 2700	40.0	N-80 LT&C	9.3	Unknown	346	3.16	11.0			
							Unknown	191	1.33	14.3			
I1	8.75	7	0 - 9750	29.0	HCP-110 LT&C	10.3	Unknown	348	3.1	11.0			
							Unknown	91	1.91	12.5			
L1	6.125	5	9550 - 13000	18.0	P-110 ST-L	13.5	Unknown	204	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 10/13/2013				EMAIL maria.gomez@epenergy.com					
API NUMBER ASSIGNED 43013525540000				APPROVAL  Permit Manager									

**Kozar 1-4C4
Sec. 4, T3S, R4W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	4,693' TVD
Green River (GRTN1)	5,873' TVD
Mahogany Bench	6,643' TVD
L. Green River	7,953' TVD
Wasatch	9,793' TVD
T.D. (Permit)	13,000' TVD

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	4,693' MD / TVD
	Green River (GRTN1)	5,873' MD / TVD
	Mahogany Bench	6,643' MD / TVD
Oil	L. Green River	7,953' MD / TVD
Oil	Wasatch	9,793' 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 2,700' MD/TVD on Conductor. A 5M BOP stack, 5M kill lines and choke manifold used from 2,700' MD/TVD to 9,750' MD/TVD. A 10M BOE w/ rotating head, 5M annular, blind rams & mud cross from 9,750' MD/TVD to TD (13,000' MD/TVD).

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

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

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

cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with 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 # 406 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Pason Gas Monitoring 600' - TD
- B) Mud logger with gas monitor – 2,700' to TD (13,000' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

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

Please refer to the attached Wellbore Diagram.

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

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

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

5. **Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	8.8 – 9.3
Intermediate	WBM	9.3 – 10.3
Production	WBM	10.3 – 13.5

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: 2,700' MD/TVD – TD (13,000' MD/TVD)

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

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 13,000' TVD equals approximately 9,126 psi. This is calculated based on a 0.702 psi/ft gradient (13.5 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 6,266 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 9,750' TVD = 7,800 psi

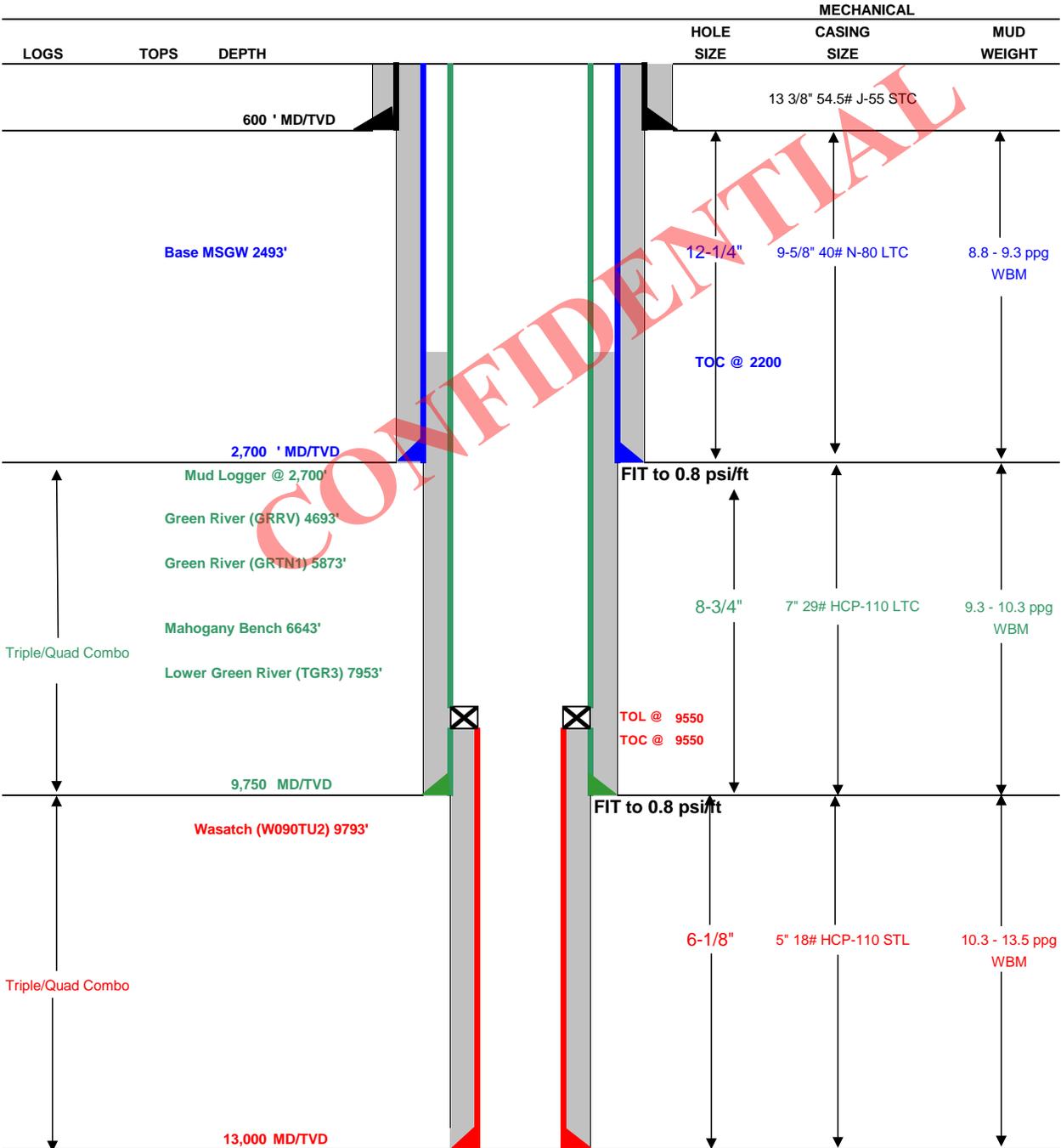
BOPE and casing design will be based on the lesser of the two MASPs which is 6,266 psi.

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



Drilling Schematic

Company Name: EP ENERGY	Date: October 11, 2013
Well Name: Kozar 1-4C4	TD: 13,000
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 4 T3S R4W 870' FNL 700' FWL	BHL: Straight Hole
Objective Zone(s): Green River, Wasatch	Elevation: 6076.2
Rig: Precision 406	Spud (est.): TBD
BOPE Info: 4.5 x 13 3/8 rotating head from 600' to 2,700' 11 5M BOP stack and 5M kill lines and choke manifold used from 2,700' to 9,750' 11 10M BOE w/rotating head, 5M annular, 3.5 rams, blind rams & mud cross from 9,750' 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	2700	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	9750	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	9550	13000	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	2,200	EXTENDACEM (TM) SYSTEM: 5 lbm/sk Silicalite Compacted + 0.25 lbm/sk Kwik Seal + 0.125 lbm/sk Poly-E-Flake + 2% Bentonite	346	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	6,550	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	348	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		3,450	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	204	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 7,900'.
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.
KOZAR 1-4C4
SECTION 4, 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 7.50 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL EAST, SOUTH AND EAST 0.80 MILES ON A PAVED COUNTY ROAD TO AN INTERSECTION;

TURN LEFT AND TRAVEL NORTHEASTERLY, EASTERLY AND SOUTHEASTERLY 1.14 MILES ON A GRAVEL ROAD TO THE BEGINNING OF THE PROPOSED ACCESS ROAD;

TURN RIGHT AND FOLLOW ROAD FLAGS SOUTHERLY 0.70 MILES TO THE PROPOSED WELL LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 10.14 MILES.

EP ENERGY E & P COMPANY, L.P.

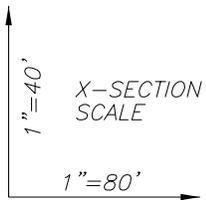
FIGURE #2

LOCATION LAYOUT FOR

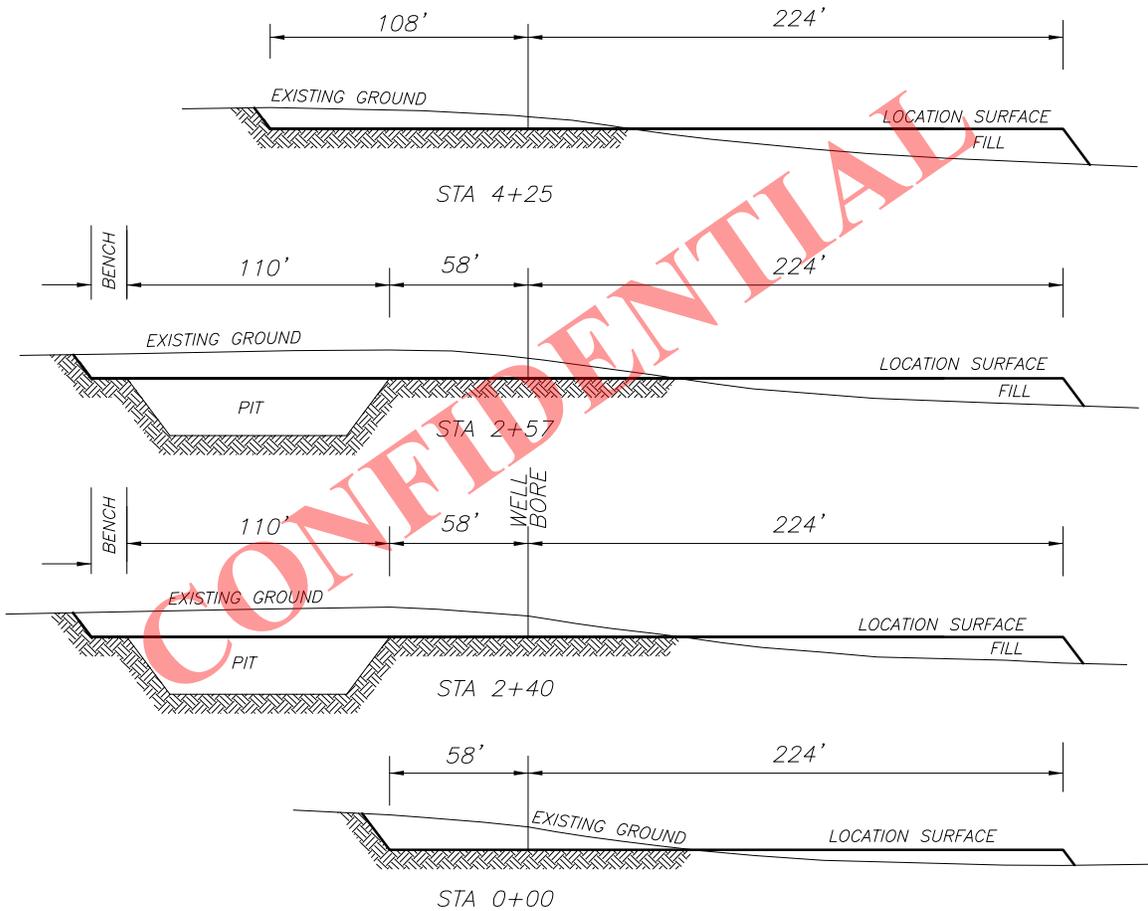
KOZAR 1-4C4

SECTION 4, T3S, R4W, U.S.B.&M.

870' FNL, 700' FWL



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



APPROXIMATE YARDAGES

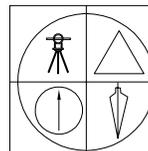
TOTAL CUT (INCLUDING PIT) = 20,100 CU. YDS.

PIT CUT = 4955 CU. YDS.
TOPSOIL STRIPPING: (6") = 3004 CU. YDS.
REMAINING LOCATION CUT = 12,141 CU. YDS

TOTAL FILL = 10,768 CU. YDS.

LOCATION SURFACE GRAVEL=1833 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=969 CU. YDS.



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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

22 JUL 2013

01-128-328

RECEIVED: October 13, 2013

EP ENERGY E & P COMPANY, L.P.

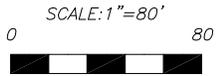
FIGURE #3

LOCATION LAYOUT FOR

KOZAR 1-4C4

SECTION 4, T3S, R4W, U.S.B.&M.

870' FNL, 700' FWL

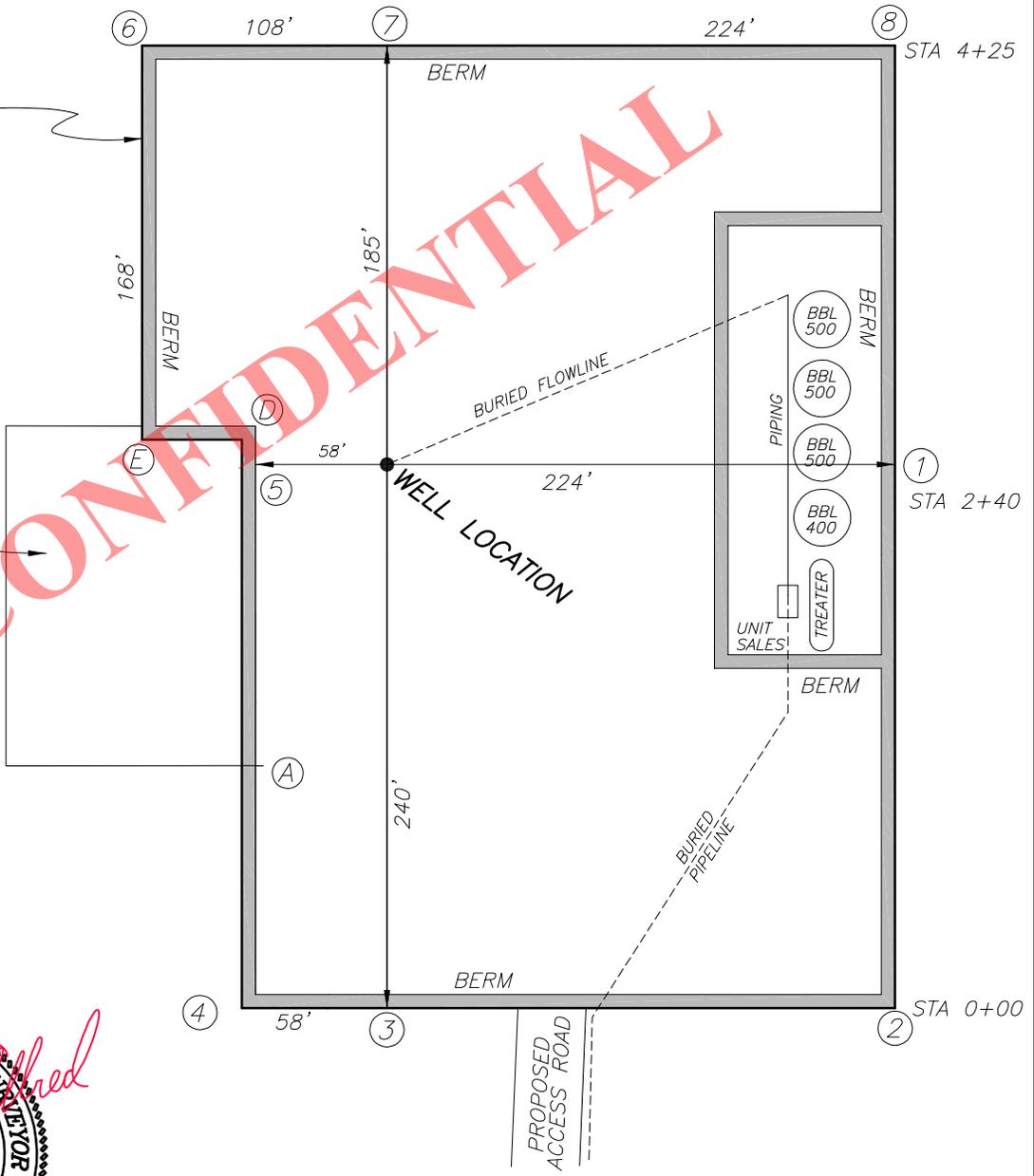


WELL PAD AREA
BERMED AND USED
FOR PRODUCTION

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

PIT AREA REGRADED
BACK TO SLOPE FOR
INTERIM RECLAMATION

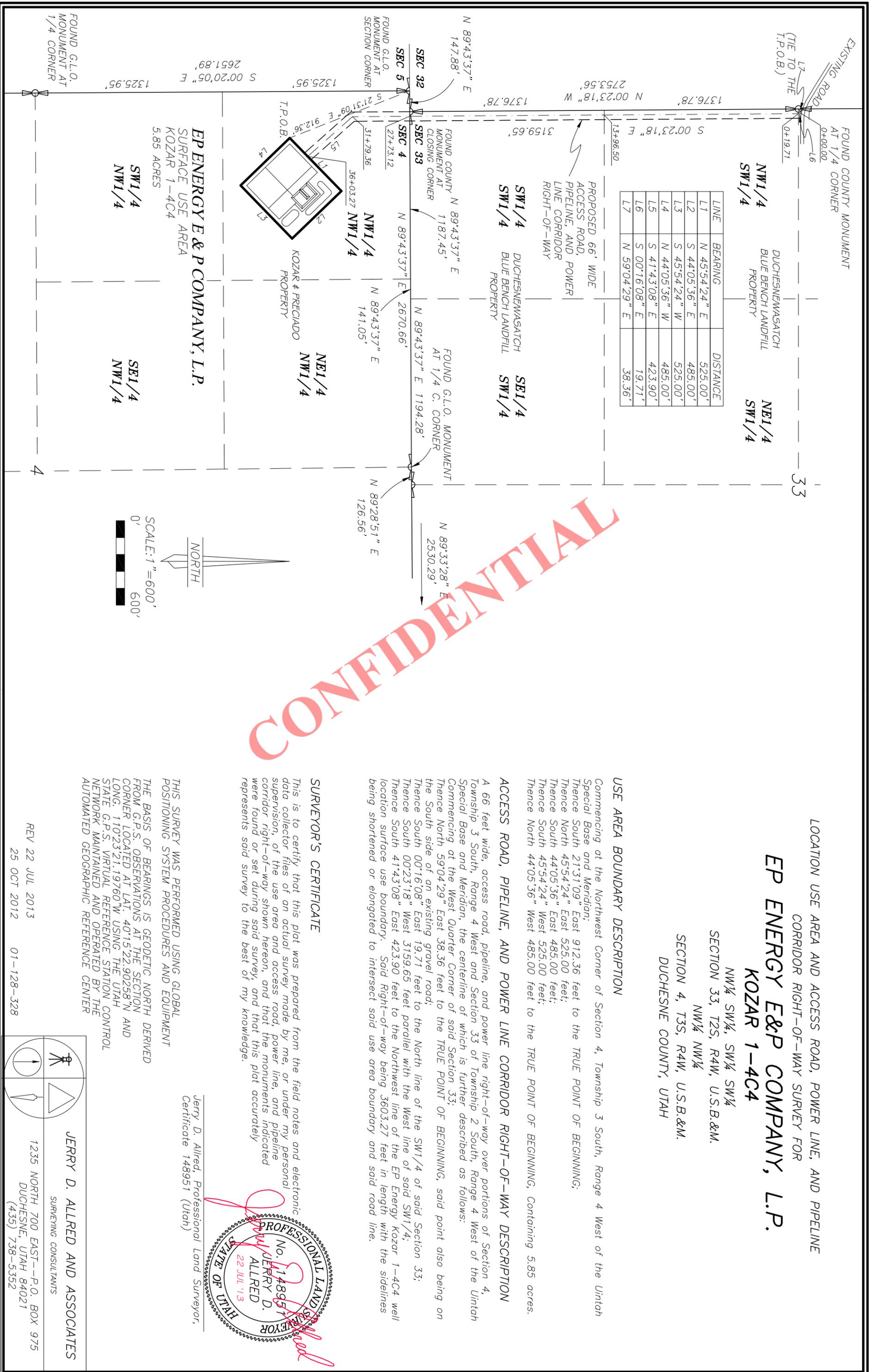
CONFIDENTIAL



Jerry D. Allred

PROFESSIONAL LAND SURVEYOR
No. 148951
JERRY D. ALLRED
22 JUL 2013
STATE OF UTAH

	<p>JERRY D. ALLRED & ASSOCIATES SURVEYING CONSULTANTS</p> <p>1235 NORTH 700 EAST--P.O. BOX 975 DUCHESNE, UTAH 84021 (435) 738-5352</p>
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LINE	BEARING	DISTANCE
L1	N 45°54'24" E	525.00'
L2	S 44°05'36" E	485.00'
L3	S 45°54'24" W	525.00'
L4	N 44°05'36" W	485.00'
L5	S 41°43'08" E	423.90'
L6	S 00°16'08" E	19.71'
L7	N 59°04'29" E	38.36'

DUCHESNEMASATCH
BLUE BENCH LANDFILL
PROPERTY

EP ENERGY E & P COMPANY, L.P.
SURFACE USE AREA
KOZAR 1-4C4
5.85 ACRES

CONFIDENTIAL

LOCATION USE AREA AND ACCESS ROAD, POWER LINE, AND PIPELINE
CORRIDOR RIGHT-OF-WAY SURVEY FOR
EP ENERGY E&P COMPANY, L.P.
KOZAR 1-4C4

NW1/4 SW1/4, SW1/4 SW1/4
SECTION 33, T2S, R4W, U.S.B.&M.
NW1/4 NW1/4
SECTION 4, T3S, R4W, U.S.B.&M.
DUCHESNE COUNTY, UTAH

USE AREA BOUNDARY DESCRIPTION

Commencing at the Northwest Corner of Section 4, Township 3 South, Range 4 West of the Uintah Special Base and Meridian;
Thence South 21°31'09" East 912.36 feet to the TRUE POINT OF BEGINNING;
Thence North 45°54'24" East 525.00 feet;
Thence South 44°05'36" East 485.00 feet;
Thence South 45°54'24" West 525.00 feet;
Thence North 44°05'36" West 485.00 feet to the TRUE POINT OF BEGINNING, Containing 5.85 acres.

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

A 66 feet wide, access road, pipeline, and power line right-of-way over portions of Section 4, Township 3 South, Range 4 West and Section 33 of Township 2 South, Range 4 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows:
Commencing at the West Quarter Corner of said Section 33;
Thence North 59°04'29" East 38.36 feet to the TRUE POINT OF BEGINNING, said point also being on the South side of an existing gravel road;
Thence South 00°16'08" East 19.71 feet to the North line of the SW1/4 of said Section 33;
Thence South 00°23'18" West 3159.65 feet parallel with the West line of said SW1/4;
Thence South 41°43'08" East 423.90 feet to the Northwest line of the EP Energy Kozar 1-4C4 well location surface use boundary. Said Right-of-way being 3603.27 feet in length with the sidelines being shortened or elongated to intersect said use area boundary and said road line.

SURVEYOR'S CERTIFICATE

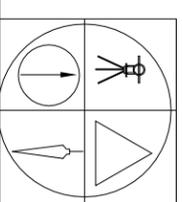
This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, power line, and pipeline corridor right-of-way shown hereon, and that the monuments indicated were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



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

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258"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

REV 22 JUL 2013
25 OCT 2012 01-128-328



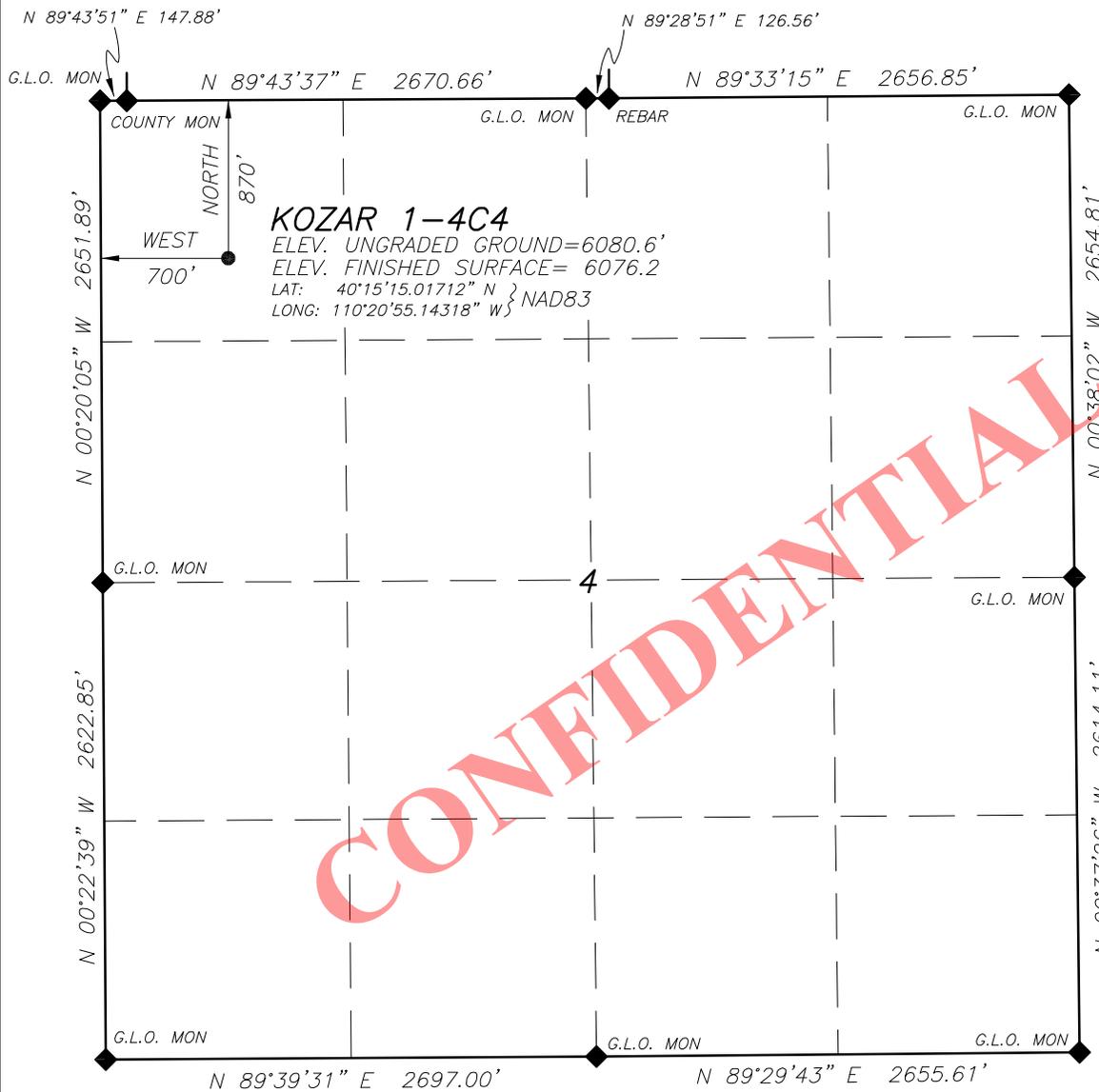
JERRY D. ALLRED AND ASSOCIATES
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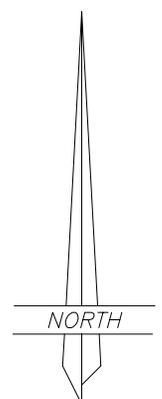
WELL LOCATION

KOZAR 1-4C4

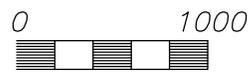
LOCATED IN THE NW¼ OF THE NW¼ OF SECTION 4, T3S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH



KOZAR 1-4C4
 ELEV. UNGRADED GROUND=6080.6'
 ELEV. FINISHED SURFACE= 6076.2
 LAT: 40°15'15.01712" N } NAD83
 LONG: 110°20'55.14318" W }



SCALE: 1"=1000'



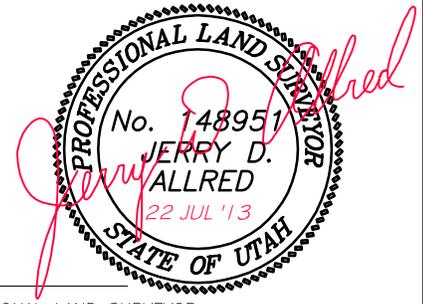
NOTE:
 NAD27 VALUES FOR WELL POSITION:
 LAT:40.254215161° N
 LONG:110.34793984° W

LEGEND AND NOTES

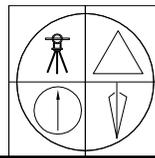
- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY
- THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP
- THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
- THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT 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
- BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

SURVEYOR'S CERTIFICATE

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



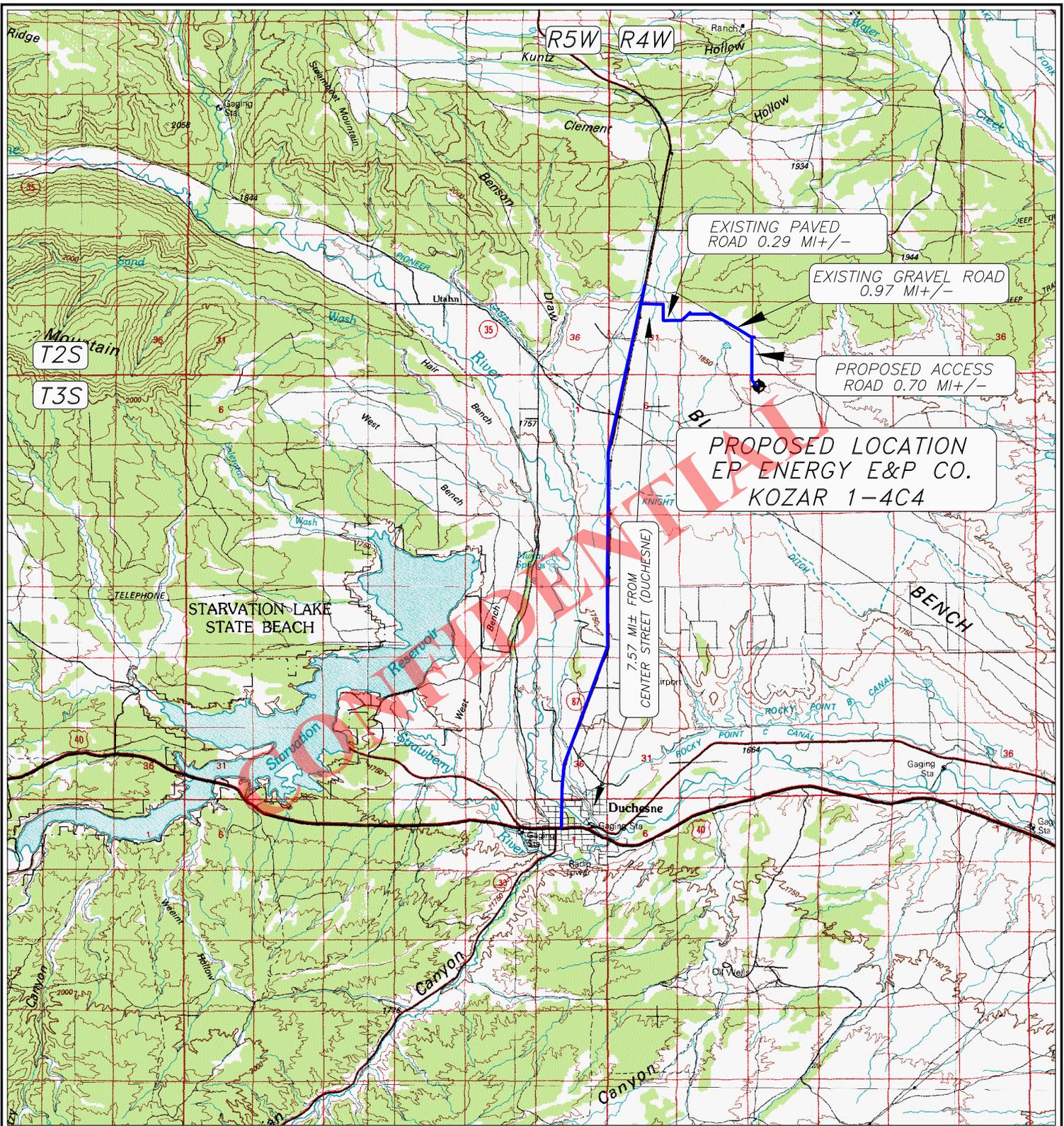
JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)



JERRY D. ALLRED & ASSOCIATES
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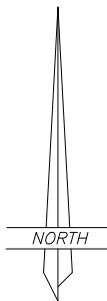
LEGEND:

◆ PROPOSED WELL LOCATION

01-128-328

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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

KOZAR 1-4C4

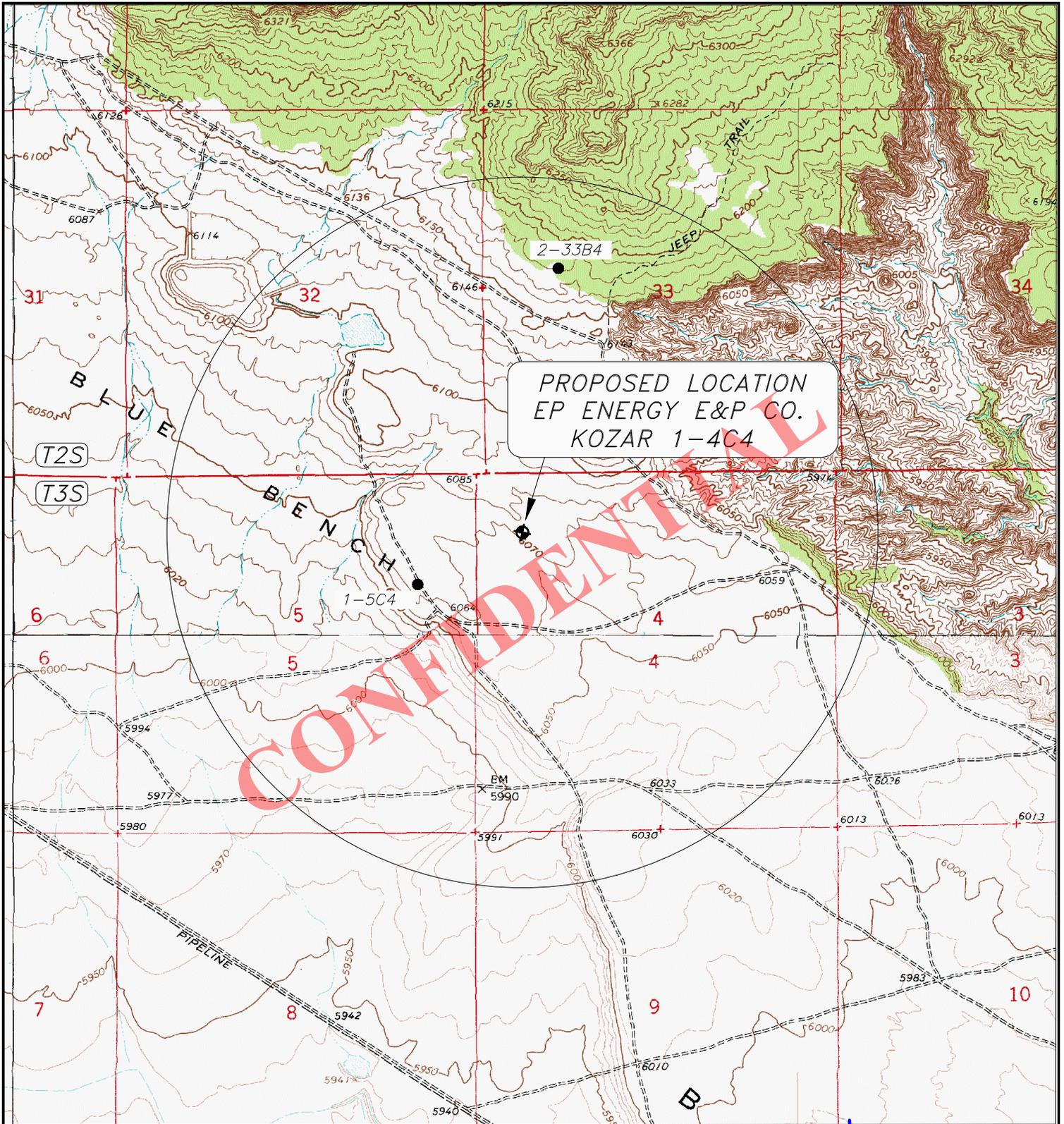
SECTION 4, T3S, R4W, U.S.B.&M.

870' FNL 700' FWL

TOPOGRAPHIC MAP "A"

SCALE; 1"=10,000'

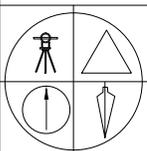
22 JUL 2013



LEGEND:

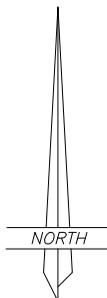
-  PROPOSED WELL LOCATION
-  OTHER WELLS AS LOCATED FROM SUPPLIED MAP

01-128-328



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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



EP ENERGY E & P COMPANY, L.P.

KOZAR 1-4C4
SECTION 4, T3S, R4W, U.S.B.&M.

870' FNL 700' FWL

TOPOGRAPHIC MAP "C"

SCALE; 1"=2000'
22 JUL 2013

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE

Michael J. Walcher personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Michael J. Walcher. I am a Sr. Staff Landman for EP Energy E&P Company, L.P., a Delaware limited partnership whose address is 1001 Louisiana St., Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Kozar 1-4C4 well (the "Well") to be located in the NW/4 NW/4 of Section 4, Township 3 South, Range 4 West, U.S.B.&M., Duchesne County, Utah (the "Drillsite Location"). The Surface Owners of the Drillsite Location are Julian Kozar, whose address is 27636 Ynez Road L-7 #309, Temecula, California 92591, and whose telephone number is (949) 346-2247, and Alvaro Preciado, III, whose address is 3357 Via Del Cielo, Fallbrook, California 92028, and whose telephone number is (949) 514-5819.
3. EP Energy and the Surface Owners have entered into two Damage Settlement and Release Agreements dated September 10, 2013 and September 13, 2013, respectively, to cover any and all injuries or damages of every character and description sustained by the Surface Owners or Surface Owners' property as a result of operations associated with the drilling of the Well.

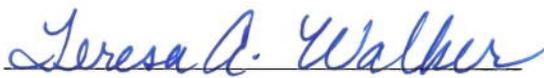
FURTHER AFFIANT SAYETH NOT.



 Michael J. Walcher

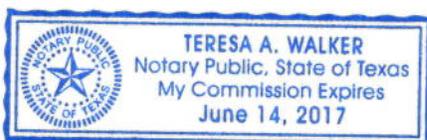
STATE OF TEXAS §
 §
 COUNTY OF HARRIS §

Sworn to and subscribed before me on this 20th day of September, 2013, by **Michael J. Walcher** as Sr. Landman for **EP Energy E&P Company, L.P.**, a Delaware limited partnership.



Notary Public in and for the State of Texas

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 .70 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 .70 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:

Julian Kozar
27636 Ynez Road L-7 #309
Temecula, CA 92591
949-346-2247

Alvaro Preciado III
3357 Via Del Cielo
Fallbrook, CA 92028
949-514-5819

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:

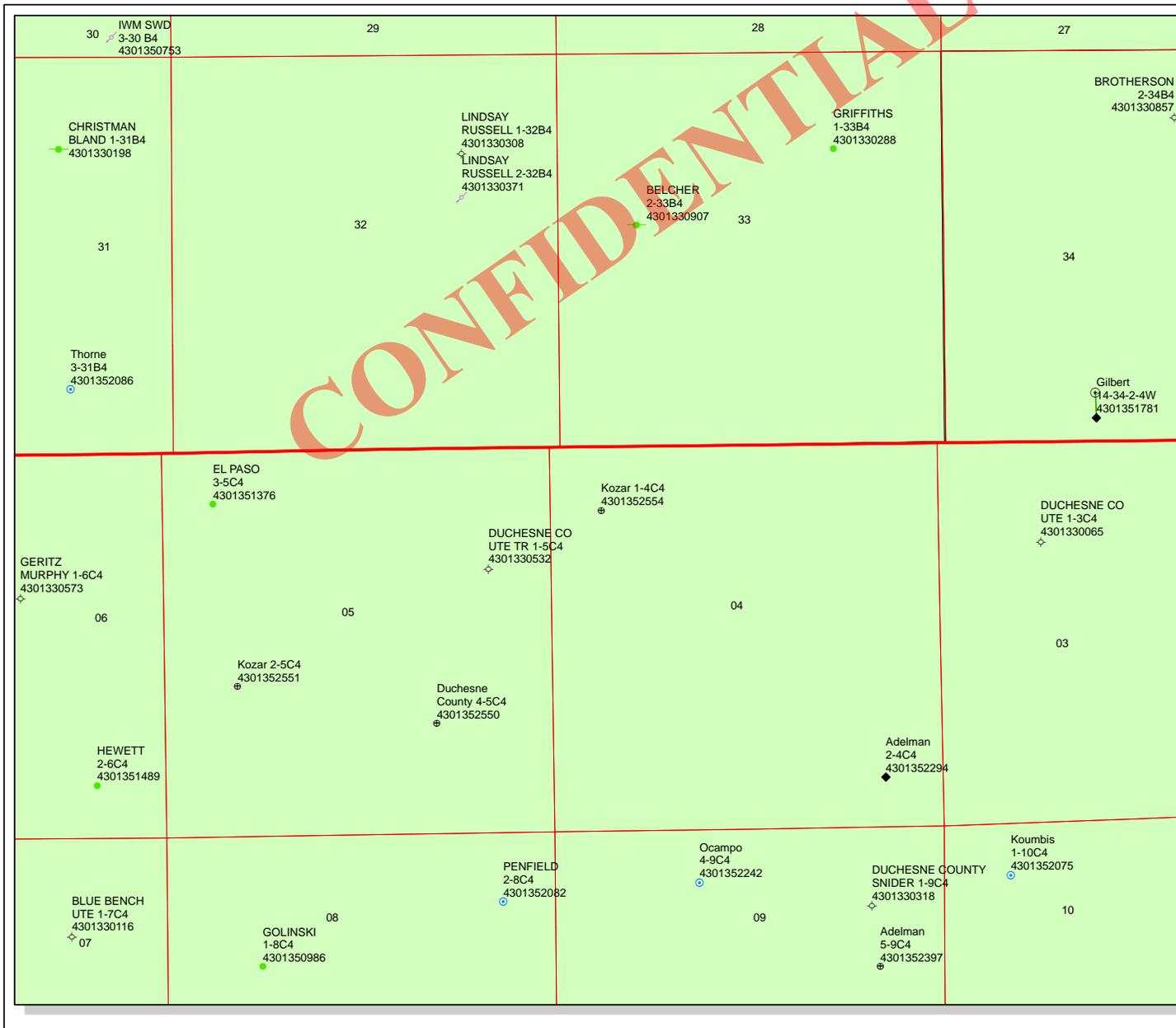
EP Energy E&P Company, L.P.
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

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



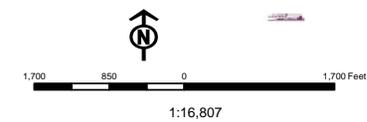
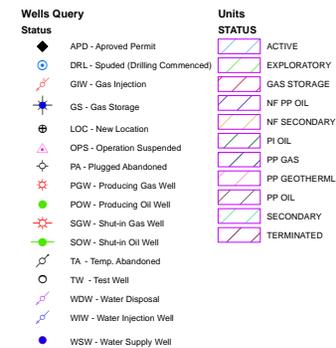
API Number: 4301352554

Well Name: Kozar 1-4C4

Township: T03.0S Range: R04.0W Section: 04 Meridian: U

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

Map Prepared: 10/15/2013
Map Produced by Diana Mason



Well Name	EP ENERGY E&P COMPANY, L.P. Kozar 1-4C4 43013525540000			
String	Cond	Surf	I1	L1
Casing Size(")	13.375	9.625	7.000	5.000
Setting Depth (TVD)	600	2700	9750	13000
Previous Shoe Setting Depth (TVD)	0	600	2700	9750
Max Mud Weight (ppg)	8.8	9.3	10.3	13.5
BOPE Proposed (psi)	1000	1000	5000	10000
Casing Internal Yield (psi)	2730	5750	11220	12410
Operators Max Anticipated Pressure (psi)	9126			13.5

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

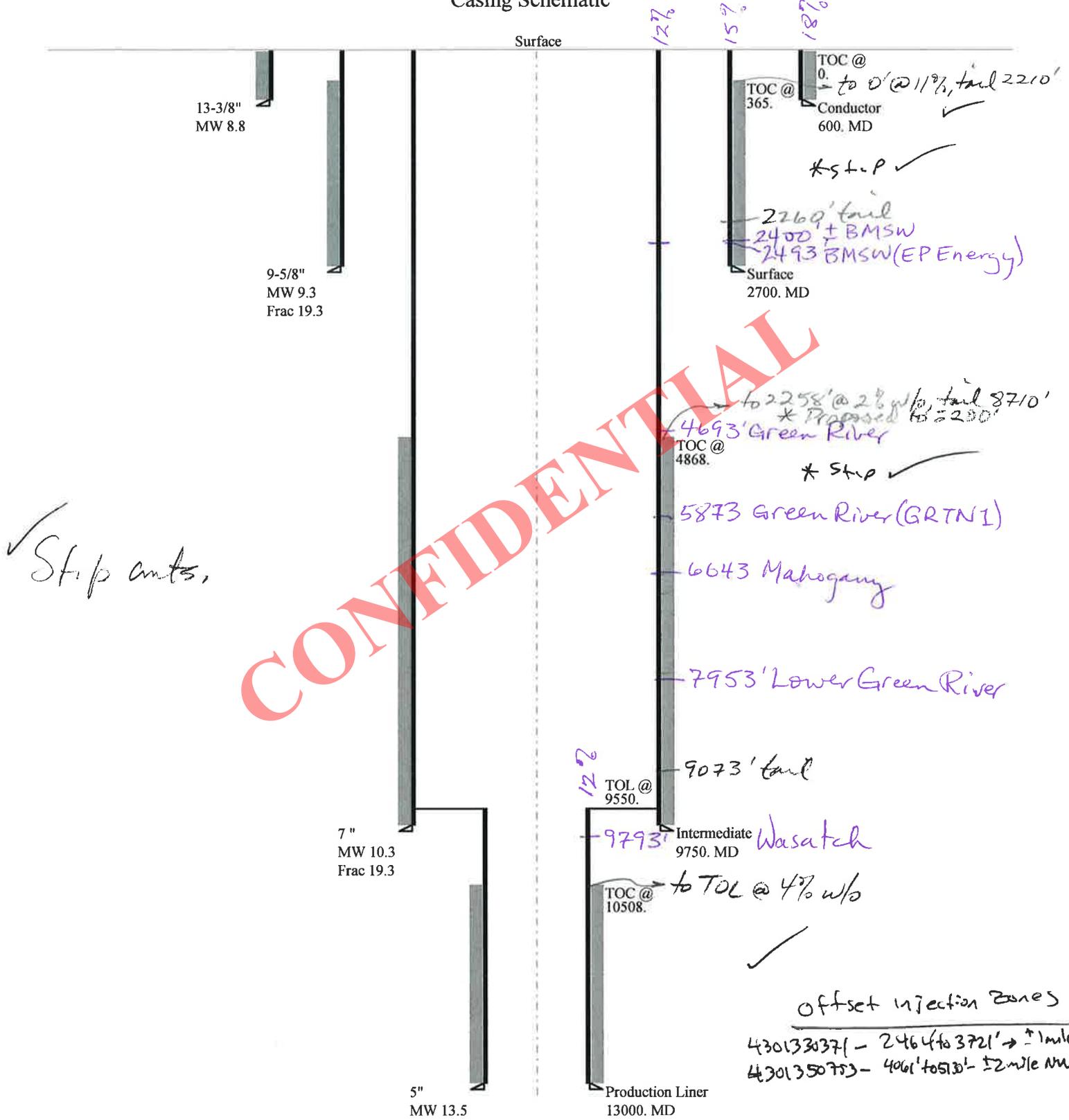
Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1306	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	982	YES <input type="checkbox"/> 4.5 x 13 3/8 Smith rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	712	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	844	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		2700	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=	5222	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4052	YES <input type="checkbox"/> 5M BOPE with annular, dbl rams, 5M kill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3077	YES <input type="checkbox"/> lines & mud cross
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3671	NO <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2700	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	5.000	"
Max BHP (psi)	.052*Setting Depth*MW=	9126	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	7566	YES <input type="checkbox"/> 10M BOPE w/rotating head, 5M annular,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	6266	YES <input type="checkbox"/> 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)=	8411	YES <input type="checkbox"/> OK <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		8687	psi
*Max Pressure Allowed @ Previous Casing Shoe=		9750	psi *Assumes 1psi/ft frac gradient

43013525540000 Kozar 1-4C4

Casing Schematic



Well name:	43013525540000 Kozar 1-4C4		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Conductor	Project ID:	43-013-52554
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

Environment:

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

Burst:

Design factor 1.00

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	7442
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	4.121	227	2730	12.00	28.4	514	18.08 J

Prepared Helen Sadik-Macdonald
by: 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:	43013525540000 Kozar 1-4C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Surface	Project ID: 43-013-52554
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: 112 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft
Cement top: 365 ft

Burst

Max anticipated surface pressure: 2,376 psi
Internal gradient: 0.120 psi/ft
Calculated BHP: 2,700 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: 2,326 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 9,750 ft
Next mud weight: 10.300 ppg
Next setting BHP: 5,217 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,700 ft
Injection pressure: 2,700 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	2700	9.625	40.00	N-80	LT&C	2700	2700	8.75	34357
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	1304	3090	2.369	2490	5750	2.31	93.1	737	7.92 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 2700 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:	43013525540000 Kozar 1-4C4		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Intermediate	Project ID:	43-013-52554
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: 210 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Cement top: 4,868 ft

Burst

Max anticipated surface pressure: 6,257 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 8,402 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: 8,230 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 13,000 ft
 Next mud weight: 13.500 ppg
 Next setting BHP: 9,117 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 9,750 ft
 Injection pressure: 9,750 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	9750	7	29.00	HCP-110	LT&C	9750	9750	6.059	110103
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	5217	9200	1.764	8402	11220	1.34	238.7	797	3.34 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 9750 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:	43013525540000 Kozar 1-4C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Production Liner	Project ID: 43-013-52554
Location:	UINTAH COUNTY	

Design parameters:

Collapse

Mud weight: 13.500 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 6,257 psi
Internal gradient: 0.220 psi/ft
Calculated BHP: 9,117 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

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

Tension is based on buoyed weight.
Neutral point: 12,301 ft

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 256 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 10,508 ft

Liner top: 9,550 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	3400	5	18.00	HCP-110	ST-L	13000	13000	4.151	269280
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	9117	15360	1.685	9117	13940	1.53	48.6	341	7.01 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 13000 ft, a mud weight of 13.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Erosion Issues N**Sedimentation Issues** N**Site Stability Issues** N**Drainage Diversion Required?** N**Berm Required?** N**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 northeast 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** 16 **Pit Underlayment Required?****Other Observations / 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
8733	43013525540000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Julian Kozar	
Well Name	Kozar 1-4C4		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NWNW 4 3S 4W U 870 FNL 700 FWL GPS Coord (UTM) 555389E 4456174N				

Geologic Statement of Basis

E P proposes to set 600 feet of conductor and 2,700 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 2,400 feet. A search of Division of Water Rights records indicates that there are 5 water wells within a 10,000 foot radius of the center of Section 4. Wells range between 150 and 500 feet in depth and are used for irrigation, stock watering, domestic and industrial purposes. These wells probably produce from the Duchesne River Formation. The Duchesne River Formation is made up of sandstones with interbedded shales and is the most prominent fresh water aquifer in the area. The proposed casing and cement program should adequately protect 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 south/southwest, having a thirteen foot drop from the northeast corner to the southwest. The reserve pit is proposed along the north/northeast 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 Kozar 1-4C4 on November 6, 2013 to address issues regarding the construction and drilling of this well. Julian Kozar and Alvaro Preciado were shown as the landowners and were therefore invited to the presite. Julian was out of the country until next month and Alvaro could not attend either. EP Energy and both landowners have entered into a land damage agreement which is on file with the Division.

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: 10/13/2013

API NO. ASSIGNED: 43013525540000

WELL NAME: Kozar 1-4C4

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

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NWNW 04 030S 040W

Permit Tech Review:

SURFACE: 0870 FNL 0700 FWL

Engineering Review:

BOTTOM: 0870 FNL 0700 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.25419

LONGITUDE: -110.34870

UTM SURF EASTINGS: 555389.00

NORTHINGS: 4456174.00

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



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: Kozar 1-4C4

API Well Number: 43013525540000

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 2200' MD as indicated in the submitted drilling plan.

Additional Approvals:

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

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

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved By:

Approved by:

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

For John Rogers
Associate Director, Oil & Gas

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

AMENDED REPORT FORM 8
(highlight changes)

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

14. DATE SPUDDED:	15. DATE T.D. REACHED:	16. DATE COMPLETED: _____ ABANDONED <input type="checkbox"/> READY TO PRODUCE <input type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL):
18. TOTAL DEPTH: MD _____ TVD _____	19. PLUG BACK T.D.: MD _____ TVD _____	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE MD _____ PLUG SET: TVD _____
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)		23. WAS WELL CORED? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit copy)	

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

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

25. TUBING RECORD

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

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

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS: All logs are submitted to UDOGM by vendor.	30. WELL STATUS:
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> DST REPORT <input type="checkbox"/> DIRECTIONAL SURVEY <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> OTHER: _____	

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

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

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

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

35. ADDITIONAL REMARKS (Include plugging procedure)

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

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

This report must be submitted within 30 days of

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

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

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

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

Attachment to Well Completion Report**Form 8 Dated May 8, 2014****Well Name: Kozar 1-4C4****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
10981'-11241'	.43	69	Open
10673'-10960'	.43	69	Open
10411'-10646'	.43	69	Open
10087'-10391'	.43	69	Open

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

Depth Interval	Amount and Type of Material
11263'-11527'	5000 gal acid, 3000# 100 mesh, 175045# 20/40 PowerProp
10981'-11241'	5000 gal acid, 3000# 100 mesh, 137100# 20/40 PowerProp
10673'-10960'	5000 gal acid, 3000# 100 mesh, 190300# 20/40 PowerProp
10411'-10646'	5000 gal acid, 3000# 100 mesh, 153860# 20/40 TLC
10087'-10391'	5000 gal acid, 3000# 100 mesh, 156840# 20/40 TLC



Company: EP Energy
Well: Kozar 1-4C4
Location: Duchesne, UT
Rig: Precision 406

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	100.000	0.336	158.485	100.00	100.00	-0.27	0.27	S	0.11	E	0.29	158.49	0.34	0.34	158.49
2	200.000	0.572	189.388	100.00	200.00	-1.04	1.04	S	0.13	E	1.05	172.66	0.33	0.24	30.90
3	300.000	0.622	197.043	100.00	299.99	-2.05	2.05	S	0.11	W	2.05	182.98	0.09	0.05	7.66
4	400.000	0.421	204.692	100.00	399.99	-2.90	2.90	S	0.42	W	2.93	188.22	0.21	-0.20	7.65
5	500.000	0.567	205.642	100.00	499.98	-3.68	3.68	S	0.79	W	3.77	192.06	0.15	0.15	0.95
6	600.000	0.268	214.222	100.00	599.98	-4.32	4.32	S	1.13	W	4.47	194.69	0.30	-0.30	8.58
7	700.000	0.435	224.146	100.00	699.98	-4.79	4.79	S	1.53	W	5.03	197.71	0.18	0.17	9.92
8	800.000	0.203	201.639	100.00	799.98	-5.22	5.22	S	1.86	W	5.55	199.58	0.26	-0.23	-22.51
9	900.000	0.329	203.848	100.00	899.98	-5.65	5.65	S	2.04	W	6.01	199.84	0.13	0.13	2.21
10	1000.000	0.407	191.902	100.00	999.97	-6.26	6.26	S	2.23	W	6.65	199.59	0.11	0.08	-11.95
11	1100.000	0.642	230.623	100.00	1099.97	-6.96	6.96	S	2.74	W	7.48	201.44	0.41	0.24	38.72
12	1200.000	0.404	196.326	100.00	1199.97	-7.66	7.66	S	3.27	W	8.33	203.11	0.38	-0.24	-34.30
13	1300.000	0.574	229.043	100.00	1299.96	-8.33	8.33	S	3.74	W	9.13	204.22	0.32	0.17	32.72
14	1400.000	0.555	201.943	100.00	1399.96	-9.10	9.10	S	4.30	W	10.07	205.31	0.27	-0.02	-27.10
15	1500.000	0.680	224.735	100.00	1499.95	-9.97	9.97	S	4.90	W	11.11	206.18	0.27	0.13	22.79
16	1600.00	0.70	215.90	100.00	1599.94	-10.89	10.89	S	5.68	W	12.28	207.54	0.11	0.01	-8.84
17	1700.00	0.47	211.41	100.00	1699.94	-11.73	11.73	S	6.25	W	13.29	208.04	0.23	-0.22	-4.49
18	1800.00	0.56	236.28	100.00	1799.93	-12.35	12.35	S	6.87	W	14.13	209.07	0.24	0.09	24.87
19	1900.00	0.67	226.73	100.00	1899.93	-13.02	13.02	S	7.70	W	15.13	210.59	0.15	0.12	-9.56
20	2000.00	0.54	221.09	100.00	1999.92	-13.78	13.78	S	8.44	W	16.16	211.47	0.15	-0.14	-5.63
21	2100.00	0.64	227.92	100.00	2099.92	-14.51	14.51	S	9.16	W	17.16	212.26	0.13	0.11	6.83
22	2200.00	0.53	231.71	100.00	2199.91	-15.17	15.17	S	9.94	W	18.14	213.22	0.12	-0.12	3.79
23	2300.00	0.71	208.84	100.00	2299.91	-16.00	16.00	S	10.60	W	19.19	213.52	0.31	0.19	-22.88
24	2400.00	0.85	220.28	100.00	2399.90	-17.11	17.11	S	11.38	W	20.55	213.62	0.21	0.14	11.44
25	2500.00	0.71	224.15	100.00	2499.89	-18.12	18.12	S	12.29	W	21.89	214.14	0.15	-0.15	3.87
26	2600.00	0.79	219.57	100.00	2599.88	-19.09	19.09	S	13.16	W	23.19	214.57	0.10	0.08	-4.58
27	2672.00	0.76	195.60	72.00	2671.87	-19.94	19.94	S	13.60	W	24.13	214.30	0.45	-0.04	-33.29
28	2797.00	0.64	184.61	125.00	2796.86	-21.43	21.43	S	13.88	W	25.53	212.93	0.14	-0.10	-8.79
29	2893.00	1.39	114.27	96.00	2892.85	-22.45	22.45	S	12.86	W	25.87	209.81	1.38	0.78	-73.27
30	2989.00	3.08	115.78	96.00	2988.77	-24.05	24.05	S	9.48	W	25.85	201.51	1.76	1.76	1.57
31	3083.00	2.87	118.14	94.00	3082.65	-26.25	26.25	S	5.13	W	26.75	191.05	0.26	-0.22	2.51
32	3180.00	2.88	122.00	97.00	3179.53	-28.69	28.69	S	0.92	W	28.71	181.84	0.20	0.01	3.98
33	3276.00	2.69	121.67	96.00	3275.41	-31.15	31.15	S	3.04	E	31.30	174.42	0.20	-0.20	-0.34
34	3372.00	2.50	118.76	96.00	3371.31	-33.34	33.34	S	6.80	E	34.03	168.48	0.24	-0.20	-3.03
35	3468.00	2.55	122.46	96.00	3467.22	-35.50	35.50	S	10.43	E	37.00	163.62	0.18	0.05	3.85



Company: EP Energy
Well: Kozar 1-4C4
Location: Duchesne, UT
Rig: Precision 406

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	3564.00	2.47	123.16	96.00	3563.13	-37.77	37.77	S	13.97	E	40.27	159.71	0.09	-0.08	0.73
37	3661.00	2.18	118.36	97.00	3660.05	-39.79	39.79	S	17.34	E	43.41	156.45	0.36	-0.30	-4.95
38	3757.00	2.29	132.41	96.00	3755.98	-41.95	41.95	S	20.36	E	46.63	154.11	0.58	0.11	14.64
39	3854.00	2.07	141.13	97.00	3852.91	-44.62	44.62	S	22.89	E	50.15	152.84	0.41	-0.23	8.99
40	3950.00	2.45	115.26	96.00	3948.83	-46.85	46.85	S	25.84	E	53.50	151.12	1.12	0.40	-26.95
41	4046.00	2.31	122.59	96.00	4044.75	-48.77	48.77	S	29.32	E	56.90	148.98	0.35	-0.15	7.64
42	4143.00	2.06	121.35	97.00	4141.68	-50.73	50.73	S	32.46	E	60.22	147.39	0.26	-0.26	-1.28
43	4239.00	2.02	124.25	96.00	4237.62	-52.58	52.58	S	35.33	E	63.35	146.10	0.12	-0.04	3.02
44	4335.00	2.17	126.92	96.00	4333.56	-54.62	54.62	S	38.18	E	66.64	145.05	0.19	0.16	2.78
45	4432.00	1.67	133.40	97.00	4430.50	-56.70	56.70	S	40.68	E	69.78	144.34	0.56	-0.52	6.68
46	4528.00	1.78	117.88	96.00	4526.46	-58.35	58.35	S	43.01	E	72.49	143.61	0.50	0.11	-16.17
47	4624.00	1.53	129.38	96.00	4622.42	-59.86	59.86	S	45.32	E	75.08	142.87	0.43	-0.26	11.98
48	4720.00	1.15	135.46	96.00	4718.39	-61.36	61.36	S	46.99	E	77.29	142.56	0.42	-0.40	6.33
49	4816.00	3.05	107.00	96.00	4814.32	-62.80	62.80	S	50.10	E	80.34	141.41	2.20	1.98	-29.65
50	4912.00	2.78	104.25	96.00	4910.20	-64.12	64.12	S	54.80	E	84.35	139.48	0.32	-0.28	-2.86
51	5007.00	2.60	112.77	95.00	5005.10	-65.52	65.52	S	59.02	E	88.18	137.99	0.46	-0.19	8.97
52	5102.00	2.23	124.49	95.00	5100.01	-67.40	67.40	S	62.53	E	91.94	137.14	0.65	-0.39	12.34
53	5199.00	1.86	136.12	97.00	5196.95	-69.60	69.60	S	65.18	E	95.36	136.88	0.57	-0.38	11.99
54	5295.00	1.72	153.06	96.00	5292.90	-72.01	72.01	S	66.91	E	98.30	137.10	0.57	-0.15	17.65
55	5391.00	1.51	162.59	96.00	5388.87	-74.50	74.50	S	67.94	E	100.83	137.64	0.35	-0.22	9.93
56	5487.00	1.62	164.87	96.00	5484.83	-77.02	77.02	S	68.68	E	103.19	138.28	0.13	0.11	2.38
57	5583.00	2.00	177.85	96.00	5580.78	-80.00	80.00	S	69.09	E	105.71	139.18	0.58	0.40	13.52
58	5679.00	1.72	172.24	96.00	5676.73	-83.10	83.10	S	69.35	E	108.24	140.15	0.35	-0.29	-5.84
59	5776.00	1.94	173.91	97.00	5773.68	-86.18	86.18	S	69.72	E	110.85	141.03	0.23	0.23	1.72
60	5872.00	2.28	177.15	96.00	5869.62	-89.70	89.70	S	69.99	E	113.78	142.04	0.38	0.35	3.38
61	5969.00	2.14	180.51	97.00	5966.55	-93.44	93.44	S	70.07	E	116.79	143.13	0.20	-0.14	3.46
62	6065.00	1.56	115.98	96.00	6062.50	-95.80	95.80	S	71.23	E	119.38	143.37	2.12	-0.60	-67.22
63	6162.00	1.60	129.94	97.00	6159.47	-97.25	97.25	S	73.45	E	121.87	142.94	0.40	0.04	14.39
64	6258.00	1.67	143.77	96.00	6255.43	-99.24	99.24	S	75.31	E	124.58	142.81	0.42	0.07	14.41
65	6354.00	2.06	160.46	96.00	6351.38	-102.00	102.00	S	76.71	E	127.62	143.05	0.69	0.41	17.39
66	6450.00	2.15	158.89	96.00	6447.31	-105.30	105.30	S	77.94	E	131.01	143.49	0.11	0.09	-1.64
67	6546.00	2.28	164.98	96.00	6543.24	-108.83	108.83	S	79.08	E	134.52	144.00	0.28	0.14	6.34
68	6643.00	2.37	170.39	97.00	6640.16	-112.67	112.67	S	79.92	E	138.13	144.65	0.24	0.09	5.58
69	6739.00	2.66	173.53	96.00	6736.07	-116.84	116.84	S	80.50	E	141.88	145.43	0.33	0.30	3.27
70	6835.00	1.59	166.86	96.00	6832.00	-120.35	120.35	S	81.05	E	145.10	146.04	1.14	-1.11	-6.95
71	6932.00	1.16	175.97	97.00	6928.97	-122.64	122.64	S	81.43	E	147.21	146.42	0.50	-0.44	9.39
72	7028.00	1.07	188.07	96.00	7024.96	-124.49	124.49	S	81.37	E	148.73	146.83	0.26	-0.09	12.60



Company: EP Energy
Well: Kozar 1-4C4
Location: Duchesne, UT
Rig: Precision 406

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					
73	7123.00	1.12	210.71	95.00	7119.94	-126.17	126.17	S	80.77	E	149.81	147.37	0.46	0.05	23.83
74	7218.00	1.27	218.79	95.00	7214.92	-127.79	127.79	S	79.64	E	150.57	148.07	0.24	0.16	8.51
75	7314.00	0.85	69.63	96.00	7310.91	-128.37	128.37	S	79.64	E	151.07	148.19	2.13	-0.44	-155.38
76	7409.00	2.37	67.35	95.00	7405.87	-127.37	127.37	S	82.11	E	151.54	147.19	1.60	1.60	-2.40
77	7505.00	2.25	59.21	96.00	7501.79	-125.64	125.64	S	85.56	E	152.01	145.74	0.36	-0.13	-8.48
78	7600.00	1.35	88.23	95.00	7596.75	-124.65	124.65	S	88.28	E	152.75	144.69	1.32	-0.95	30.55
79	7695.00	1.17	123.04	95.00	7691.73	-125.15	125.15	S	90.21	E	154.27	144.21	0.81	-0.19	36.64
80	7791.00	1.14	150.20	96.00	7787.71	-126.51	126.51	S	91.51	E	156.14	144.12	0.57	-0.03	28.29
81	7887.00	2.10	106.72	96.00	7883.67	-127.84	127.84	S	93.67	E	158.49	143.77	1.56	1.00	-45.29
82	7983.00	2.45	123.01	96.00	7979.60	-129.47	129.47	S	97.07	E	161.82	143.14	0.76	0.36	16.97
83	8077.00	2.20	137.39	94.00	8073.52	-131.89	131.89	S	99.98	E	165.50	142.84	0.67	-0.27	15.30
84	8173.00	2.08	166.11	96.00	8169.46	-134.94	134.94	S	101.65	E	168.94	143.01	1.11	-0.13	29.92
85	8269.00	2.00	177.51	96.00	8265.39	-138.30	138.30	S	102.14	E	171.93	143.55	0.43	-0.08	11.88
86	8365.00	2.19	182.40	96.00	8361.33	-141.81	141.81	S	102.13	E	174.76	144.24	0.27	0.20	5.09
87	8461.00	2.05	165.05	96.00	8457.27	-145.30	145.30	S	102.50	E	177.82	144.80	0.68	-0.15	-18.07
88	8557.00	1.51	122.68	96.00	8553.22	-147.64	147.64	S	104.01	E	180.60	144.84	1.44	-0.56	-44.14
89	8653.00	1.87	139.99	96.00	8649.18	-149.52	149.52	S	106.08	E	183.33	144.65	0.65	0.38	18.03
90	8750.00	1.69	156.48	97.00	8746.14	-152.05	152.05	S	107.67	E	186.31	144.70	0.56	-0.19	17.00
91	8846.00	1.95	178.78	96.00	8842.09	-154.98	154.98	S	108.27	E	189.05	145.06	0.78	0.27	23.23
92	8941.00	1.15	174.96	95.00	8937.05	-157.54	157.54	S	108.39	E	191.23	145.47	0.85	-0.84	-4.02
93	9037.00	1.16	161.51	96.00	9033.03	-159.43	159.43	S	108.78	E	193.00	145.69	0.28	0.01	-14.01
94	9133.00	1.64	205.60	96.00	9129.01	-161.59	161.59	S	108.49	E	194.63	146.12	1.19	0.50	45.93
95	9230.00	1.17	242.29	97.00	9225.98	-163.30	163.30	S	107.02	E	195.24	146.76	1.02	-0.48	37.82
96	9326.00	1.26	249.61	96.00	9321.96	-164.12	164.12	S	105.16	E	194.92	147.35	0.19	0.09	7.63
97	9423.00	1.16	249.48	97.00	9418.94	-164.84	164.84	S	103.24	E	194.50	147.94	0.10	-0.10	-0.13
98	9519.00	1.71	264.97	96.00	9514.91	-165.30	165.30	S	100.90	E	193.67	148.60	0.70	0.57	16.14
99	9615.00	1.39	256.39	96.00	9610.87	-165.70	165.70	S	98.34	E	192.69	149.31	0.41	-0.33	-8.94
100	9712.00	1.42	251.93	97.00	9707.84	-166.35	166.35	S	96.06	E	192.10	150.00	0.12	0.03	-4.60
101	9788.00	1.26	97.38	76.00	9783.83	-166.75	166.75	S	95.99	E	192.41	150.07	3.44	-0.21	-203.36
102	9900.00	1.49	110.65	112.00	9895.80	-167.42	167.42	S	98.58	E	194.29	149.51	0.35	0.21	11.85
103	10000.00	1.42	137.22	100.00	9995.77	-168.79	168.79	S	100.63	E	196.52	149.20	0.67	-0.07	26.57
104	10100.00	1.96	154.14	100.00	10095.73	-171.24	171.24	S	102.22	E	199.43	149.16	0.73	0.54	16.92
105	10200.00	2.23	163.85	100.00	10195.66	-174.65	174.65	S	103.51	E	203.02	149.35	0.44	0.27	9.71
106	10300.00	1.99	161.96	100.00	10295.59	-178.17	178.17	S	104.59	E	206.60	149.59	0.24	-0.23	-1.89
107	10400.00	2.30	167.63	100.00	10395.52	-181.78	181.78	S	105.56	E	210.20	149.86	0.37	0.30	5.67
108	10500.00	2.82	173.39	100.00	10495.42	-186.17	186.17	S	106.27	E	214.37	150.28	0.58	0.52	5.76
109	10600.00	3.20	176.23	100.00	10595.29	-191.40	191.40	S	106.73	E	219.15	150.85	0.41	0.39	2.84



Company: EP Energy **Job Number:** _____
Well: Kozar 1-4C4 **Mag Decl.:** _____
Location: Duchesne, UT **Dir Driller:** _____
Rig: Precision 406 **MWD Eng:** _____

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

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
110	10700.00	3.30	182.27	100.00	10695.12	-197.06	197.06	S	106.80	E	224.14	151.54	0.36	0.10	6.04
111	10800.00	3.35	181.32	100.00	10794.96	-202.87	202.87	S	106.62	E	229.18	152.27	0.08	0.05	-0.95
112	10900.00	3.38	172.25	100.00	10894.78	-208.71	208.71	S	106.95	E	234.52	152.87	0.53	0.02	-9.07
113	11000.00	3.32	180.90	100.00	10994.61	-214.53	214.53	S	107.30	E	239.87	153.43	0.51	-0.05	8.65
114	11100.00	3.71	174.69	100.00	11094.43	-220.65	220.65	S	107.56	E	245.47	154.01	0.54	0.39	-6.21
115	11200.00	3.75	176.28	100.00	11194.21	-227.13	227.13	S	108.07	E	251.53	154.55	0.11	0.03	1.59
116	11300.00	3.72	179.87	100.00	11294.00	-233.64	233.64	S	108.29	E	257.51	155.13	0.24	-0.03	3.59
117	11400.00	3.82	180.85	100.00	11393.79	-240.21	240.21	S	108.25	E	263.47	155.74	0.12	0.10	0.98
118	11500.00	4.16	177.62	100.00	11493.54	-247.17	247.17	S	108.35	E	269.87	156.33	0.41	0.34	-3.23
119	11600.00	4.05	175.13	100.00	11593.29	-254.31	254.31	S	108.80	E	276.61	156.84	0.21	-0.12	-2.48
120	11700.00	4.21	183.44	100.00	11693.03	-261.49	261.49	S	108.88	E	283.26	157.39	0.62	0.17	8.31
121	11800.00	4.24	178.87	100.00	11792.76	-268.86	268.86	S	108.73	E	290.01	157.98	0.34	0.03	-4.57
122	11900.00	3.95	175.20	100.00	11892.50	-275.98	275.98	S	109.09	E	296.76	158.43	0.39	-0.30	-3.67
123	12000.00	4.09	182.00	100.00	11992.26	-282.97	282.97	S	109.25	E	303.33	158.89	0.50	0.14	6.80
124	12100.00	4.15	184.47	100.00	12092.00	-290.14	290.14	S	108.85	E	309.88	159.44	0.19	0.06	2.47
125	12200.00	4.31	184.31	100.00	12191.73	-297.49	297.49	S	108.28	E	316.58	160.00	0.15	0.15	-0.16
126	12300.00	4.41	182.89	100.00	12291.44	-305.07	305.07	S	107.81	E	323.56	160.54	0.15	0.10	-1.42
127	12400.00	4.25	180.74	100.00	12391.15	-312.61	312.61	S	107.57	E	330.60	161.01	0.23	-0.16	-2.16
128	12500.00	4.19	183.90	100.00	12490.88	-319.96	319.96	S	107.27	E	337.46	161.47	0.24	-0.06	3.16
129	12600.00	4.16	178.20	100.00	12590.62	-327.23	327.23	S	107.14	E	344.32	161.87	0.42	-0.03	-5.70
130	12692.00	4.24	185.07	92.00	12682.37	-333.95	333.95	S	106.94	E	350.65	162.24	0.55	0.09	7.47
131	12790.00	4.24	185.07	98.00	12780.10	-341.17	341.17	S	106.30	E	357.35	162.69	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
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	8. WELL NAME and NUMBER: Kozar 1-4C4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0870 FNL 0700 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 04 Township: 03.0S Range: 04.0W Meridian: U	9. API NUMBER: 43013525540000
PHONE NUMBER: 713 997-5138 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/1/2017	<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.

POOH with co-rod & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing. ? Set 15M CBP for 5" 18# casing @ 10,075' and dump bail 15' cmt on top of plug. Stage 1: o Perforate new LGR interval from 9,902' – 9,980'. o Prop Frac Perforations with 50,000 lbs 30/50 (4,000 gals 15% HCl acid and 4,000 lbs 100 mesh) (Stage 1 Recom). Stage 2: o RIH with 7" CBP & set @ 9,199'. o Perforate new LGR interval from 9,082' – 9,184'. o Acid Frac Perforations with 12,000 gals 15% HCl acid (Stage 2 Recom). Stage 3: o RIH with 7" CBP & set @ 8,995'. o Perforate new LGR interval from 8,608' – 8,980'. o Acid Frac Perforations with 37,000 gals 15% HCl acid (Stage 3 Recom). Clean out well drilling up (2) 7" CBPs leaving (1) 5" 15M CBP @ 10,075'. Top perf BELOW plugs @ 10,087'. ? RIH w/ production tubing, pump, and rods. ? Clean location and resume production.

Approved by the
 Utah Director of
 Oil, Gas and Mining

Date: _____

By:

NAME (PLEASE PRINT) Erik Hauser	PHONE NUMBER 713 997-6717	TITLE Sr EHS Specialist
SIGNATURE N/A	DATE 12/12/2016	

Kozar 1-4 C4 Recom Summary Procedure

- POOH with co-rod & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing.
- Set 15M CBP for 5" 18# casing @ 10,075' and dump bail 15' cmt on top of plug.
- Stage 1:
 - Perforate new LGR interval from **9,902' – 9,980'**.
 - Prop Frac Perforations with **50,000 lbs 30/50** (4,000 gals 15% HCl acid and 4,000 lbs 100 mesh) (Stage 1 Recom).
- Stage 2:
 - RIH with 7" CBP & set @ 9,199'.
 - Perforate new LGR interval from **9,082' – 9,184'**.
 - Acid Frac Perforations with **12,000** gals 15% HCl acid (Stage 2 Recom).
- Stage 3:
 - RIH with 7" CBP & set @ 8,995'.
 - Perforate new LGR interval from **8,608' – 8,980'**.
 - Acid Frac Perforations with **37,000** gals 15% HCl acid (Stage 3 Recom).

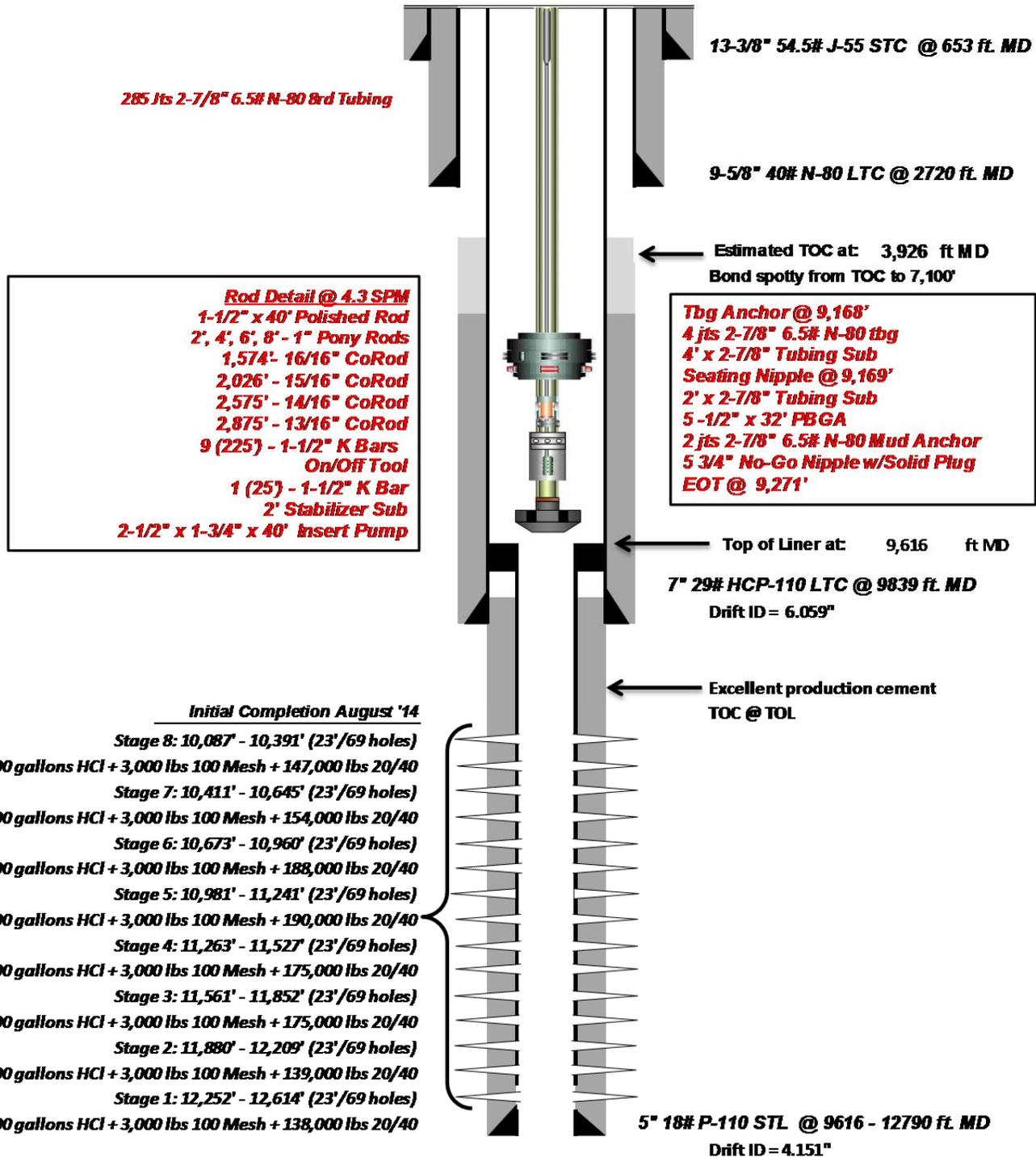
- Clean out well drilling up (2) 7" CBPs leaving (1) 5" 15M CBP @ 10,075'. Top perf BELOW plugs @ 10,087'.
- RIH w/ production tubing, pump, and rods.
- Clean location and resume production.



Current Pumping Schematic Wellbore Schematic

Well Name: **Kozar 1-4 C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40°15'15.01712" N Long: 110°20'55.14318" W**
 Producing Zone(s): **Wasatch**

Last Updated: **12/9/2016**
 By: **Fondren**
 TD: **12787**
 API: **43013525540000**
 AFE:

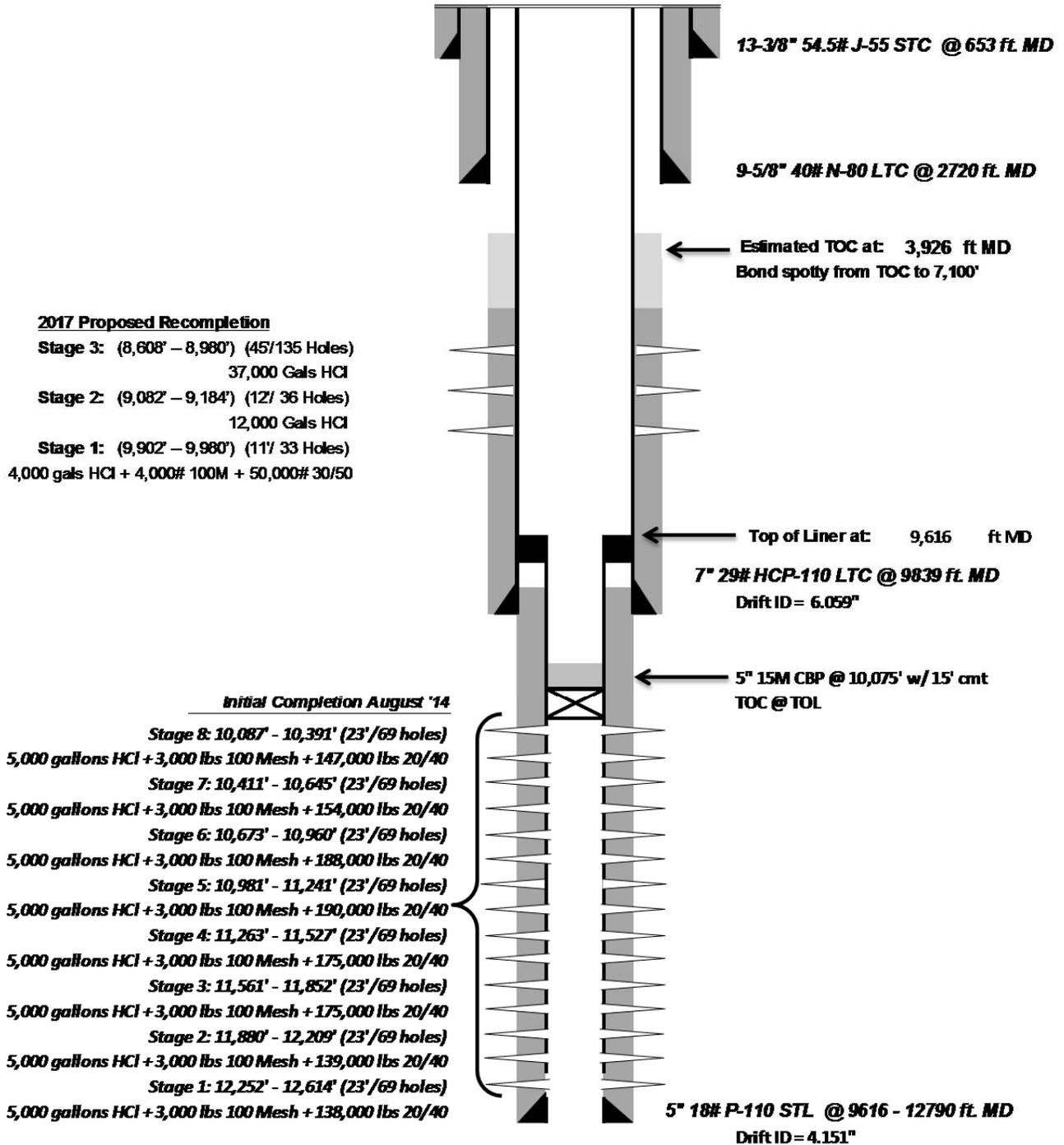




Current Pumping Schematic Wellbore Schematic

Well Name: Kozar 1-4 C4
 Company Name: EP Energy
 Field, County, State: Altamont, Duchesne, Utah
 Surface Location: Lat: 40°15'15.01712" N Long: 110°20'55.14318" W
 Producing Zone(s): Wasatch

Last Updated: 12/9/2016
 By: Fondren
 TD: 12787
 API: 43013525540000
 AFE: _____



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		8. WELL NAME and NUMBER: Kozar 1-4C4
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002		9. API NUMBER: 43013525540000
PHONE NUMBER: 713 997-6717 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0870 FNL 0700 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 04 Township: 03.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/12/2016	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

Please see attached operations summary report for a casing repair completed at the Kozar 1-4C4 well location.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
February 02, 2017**

NAME (PLEASE PRINT) Erik Hauser	PHONE NUMBER 713 997-6717	TITLE Sr. HSER Specialist
SIGNATURE N/A	DATE 1/31/2017	

1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	KOZAR 1-4C4		
Project	ALTAMONT FIELD	Site	KOZAR 1-4C4
Rig Name/No.	PEAK/1500/	Event	LOE LAND
Start date	10/26/2016	End date	11/12/2016
Spud Date/Time	2/24/2014	UWI	KOZAR 1-4C4
Active datum	KB @6,093.2usft (above Mean Sea Level)		
Afe No./Description	167315/57602 / KOZAR 1-4C4		

2 Summary

2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
10/27/2016	11:00 12:30	1.50	PRDHEQ	46		P		MOVE RIG TO LOCATION & RIG UP.
	12:30 15:30	3.00	PRDHEQ	18		P		ND WELLHEAD. NU & TEST BOP
	15:30 17:30	2.00	PRDHEQ	18		P		TOOH W/ 230 JTS 2-7/8"EUE TBG. SDFN W/ PIPE RAMS CLOSED & LOCKED, CSG VALVES CLOSED & CAPPED & TIW VALVE INSTALLED IN TBG CLOSED & CAPPED
10/28/2016	6:00 7:00	1.00	PRDHEQ	46		P		HOLD SAFETY MEETING ON DAILY OPERATIONS. FILL OUT & REVIEW JSA
	7:00 8:00	1.00	PRDHEQ	18		P		TOOH W/ 51 JTS 2-7/8"EUE TBG, SEAT NIPPLE, PUP JT, PBGA, 2 JTS 2-7/8"EUE TBG & SOLID PLUG.
	8:00 11:00	3.00	ELINE	18		P		RU WIRELINE UNIT. RIH W/ 1-11/16" SINKER BARS. TAG @ 10685'. ATTEMPTS TO WORK DEEPER FAILED. POOH W/ SINKER BARS. RD WIRELINE UNIT.
	11:00 17:00	6.00	PRDHEQ	18		P		TALLY & TIH W/ 2-3/8"EUE MULESHOE JT, 50 JTS 2-3/8"EUE TBG, X-OVER & 278 JTS 2-7/8"EUE TBG. TAG UP @ 10676'. ATTEMPTS TO WORK DEEPER FAILED. TOOH W/ 32 JTS TBG. SDFN
10/29/2016	6:00 7:00	1.00	PRDHEQ	46		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON DAILY OPERATIONS. FILL OUT & REVIEW JSA
	7:00 8:00	1.00	PRDHEQ	18		P		BLEED PRESSURE OFF WELL. TIH W/ 36 JTS 2-7/8"EUE TBG.
	8:00 10:00	2.00	PRDHEQ	18		P		PUMP 125 BBLs 2% KCL WTR TO BREAK CIRCULATION
	10:00 18:30	8.50	PRDHEQ	18		P		WORK MULE SHOE THROUGH TIGHT CSG & CLEAN OUT FILL TO 10873', RECOVERING LARGE PIECES OF SHALE, CMT & FINE SAND. CIRCULATE HOLE CLEAN. POOH W/42 JTS 2-7/8"EUE TBG. SDFN W/ PIPE RAMS CLOSED & LOCKED, CSG VALVES CLOSED & CAPPED & TIW VALVE INSTALLED IN TBG CLOSED & CAPPED
	18:30 18:30	0.00	PRDHEQ	18		P		
10/30/2016	6:00 7:00	1.00	PRDHEQ	46		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON DAILY OPERATIONS. FILL OUT & REVIEW JSA
	7:00 8:00	1.00	PRDHEQ	18		P		RIH W/ 42 JTS 2-7/8"EUE TBG. TAG FILL @ 10873'. PUMP 75 BBLs 2% KCL WTR TO BREAK REVERSE CIRCULATION
	8:00 16:30	8.50	PRDHEQ	18		P		CLEAN OUT FROM 10873' TO 11,132'. HAD TROUBLE W/ TBG PLUGGING & PUMP LINES PLUGGING AS RETURNS WERE SMALL TO LARGE PIECES OF SHALE & SOME SANDY SILT. CIRCULATE HOLE CLEAN.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	16:30 17:30	1.00	PRDHEQ	18		P		POOH W/ 50 JTS 2-7/8"EUE TBG. NOTE: 2-3/8" TBG COLLARS WOULD CAUSE OVER PULL AS THEY MOVED PAST THE TOP OF CSG PART. SDFN W/ PIPE RAMS CLOSED & LOCKED, CSG VALVES CLOSED & CAPPED & TIW VALVE INSTALLED IN TBG CLOSED & CAPPED
10/31/2016	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY TODAY. SHUT DOWN FOR WEEKEND
11/1/2016	7:00 8:30	1.50	PRDHEQ	46		P		HELD JSA MEETING W/ RIG CREW CLEAN OUT FILL
	8:30 12:00	3.50	PRDHEQ	18		P		TSIP 0, CSIP 0, OPEN WELL UP TIH W/ 52 JT R/U TBG SWIVEL BROKE CIRC W/ 80 BBLs 2% KCL WASH FROM 11,131-11,229' CIRC TWO BOTTOMS UP GETTING FORMATION BACK R/D TBG SWIVEL
	12:00 15:30	3.50	PRDHEQ	18		P		TOOH W/ 291 JT 2 7/8" N-80 TBG EOT @ 1,652' CLOSE & LOCK PIPE RAMS INSTALL TIW VALVE SDFN
11/2/2016	6:00 7:30	1.50	PRDHEQ	46		P		HELD JSA MEETING W/ RIG CREW WORKING AROUND WIRELINE SERVICE
	7:30 9:00	1.50	PRDHEQ	18		P		TSIP 0, CSIP 0, SHUT OFF ALL IGNITION SOURCE OPEN WELL UP CHECK FOR ANY FLOW TOOH W/ 1 JT 2 7/8" N-80 TBG, 50 JT 2 3/8" N-80 TBG, 2 3/8" MULE SHOE
	9:00 12:30	3.50	PRDHEQ	53		P		R/U CUTTERS RIH W/ 40 FINGER CSG LOG CORROLATE W/ SHORT JT @ 7,880' - 7,890' CONT RIH CORROLATE LT @ 9,616' CONT RIH SET DOWN W/ TOOL @ 10,718' OPEN FINGERS OUT LOG UP 10,708' SEEMS BE 10' SECTION CONT LOG OUT LT!
	12:30 13:30	1.00	PRDHEQ	18		P		R/D TRUCK CLOSE BLIND RAMS & LOCK SEND CSG UP SALES LINE LOSE & CAP OTHER SIDE SDFN (WAIT ON FISHING TOOLS AM!)
11/3/2016	6:00 7:30	1.50	PRDHEQ	46		P		HELD JSA MEETING W/ RIG CREW P/U DRILL COLLARS
	7:30 8:30	1.00	PRDHEQ	18		P		SICP 50, SHUT OFF ALL IGNITION SOURCE BLEED OFF WELL FLOW BACK TANK WATCH FOR FLOW, MEASURE TALLY FISHING TOOLS
	8:30 9:30	1.00	PRDHEQ	53		P		P/U 2 3/8" X 30' MULE SHOE JT, WELD ON BOTTOM 3 1/2" CSG SWEDGE, 3 1/8" BUMPER SUB, 3 1/8" SUPER JAR, X/O, SIX 3 1/8" DRILL COLLARS, X/O, 3 1/8" INTENSIFIER, X/O, X/O
	9:30 16:00	6.50	PRDHEQ	18		P		P/U 64 JT 2 7/8" DSS TBG, TIH W/ 262 JT 2 7/8" N-80 TBG SEEN SPOT @ 10,708' W/ END STINGER WORK IT DOWN PAST BAD SPOT HAVE THE SWEDGE @ 10,718' HAD WORK SWEDGE 20 MINS UP & DOWN GET PAST THIS POINT MADE DOWN 10,781' (TOTAL 63' NOT ACTING RIGHT TAKE WEIGHT ALL THE WAY DOWN!)
	16:00 17:30	1.50	PRDHEQ	53		P		TOOH W/ 202 JT 2 7/8" N-80 TBG EOT @ 5,200'
	17:30 18:00	0.50	PRDHEQ	18		P		CLOSE & LOCK PIPE RAMS 1ST BARRIER, CLOSE CSG VALVE 2ND, INSTALL 2 7/8" TIW VALVE 1ST BARRIER, NIGHT CAP NEEDLE VALVE 2ND BARRIER SDFN
11/4/2016	6:00 7:30	1.50	PRDHEQ	46		P		HELD JSA MEETING W/ RIG CREW R/U POWER SWIVEL
	7:30 8:00	0.50	PRDHEQ	18		P		TSIP 0, CSIP 50, SHUT OFF ALL IGNITION SOURCE OPEN WELL UP FLOW BACK TANKS WATCH FLOW
	8:00 10:00	2.00	PRDHEQ	18		P		TOOH W/ 59 JT 2 7/8" N-80 TBG, 64 JT 2 7/8" DSS N-80 TBG XO,XO, 3 1/8" INTENSIFIER, X/O, SIX 3 -1/2" DRILL COLLARS, X/O, 3 1/8" SUPER JAR, 3 1/8" BUMPER SUB, 3 1/2" SWEDGE W/ 30' 2 3/8" MULE SHOE(MIDDLE LAST STD DRILL COLLARS HAD PRETTY GOOD BEND IN IT & SCARRING ON OD TOOLS!) L/D THE TWO BAD COLLARS

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	10:00 13:00	3.00	PRDHEQ	18		P		M/U 2 3/8" CAP MULE SHOE W/ 3/8" HOLE 2' ABOVE BOTTOM TO JET TOOL AROUND DOWN HOLE! X/O, X/O, TIH W/ 266 JT 2 7/8" N-80 TBG
	13:00 15:30	2.50	PRDHEQ	53		P		R/U POWER SWIVEL PUMP DOWN TBG @ 300 PSI START WORK STINGER @ 10,637 SLOW WORK DOWN 10,720' TAKE 1-2K DOWN P/U WORK ROTATION FELL PASS SPOT TIH W/ 17 JT 2 7/8" SET DOWN @ 11,229'
	15:30 17:30	2.00	PRDHEQ	18		P		TOOH W/ 169 JT 2 7/8" N-80 TBG EOT @ 5,780'
	17:30 18:00	0.50	PRDHEQ	18		P		CLOSE & LOCK PIPE RAMS 1ST BARRIER CLOSE CSG VAVLE W/ NIGHT CAPS 2ND BARRIER INSTALL 2 7/8" TIW TBG 1ST BARRIER, NIGHT CAP W/ NEEDLE VAVLE 2ND BARRIER SDFN
11/5/2016	6:00 7:30	1.50	PRDHEQ	46		P		HELD JSA MEETING W/ RIG CREW L/D FISHING TOOLS
	7:30 10:00	2.50	PRDHEQ	18		P		TSIP 0, CSIP 0, OPEN WELL UP CONT TOOH W/ 115 JT 2 7/8" N-80 TBG, 64 JT 2 7/8" DSS, X/O, X/O, 2 3/8" MULE SHOE CAP @ THE END 3/8" HOLE 2' ABOVE MULE SHOE.
	9:00 15:00	6.00	PRDHEQ	18		P		M/U 2 7/8" NOTCH COLLAR, X/O, TIH W/ 79 JT 2 7/8" DSS TBG X/O, TIH W/ 222 JT 2 7/8" N-80 TBG SEEN LT @ 9,616' CONT TIH W/ 32 JT 2 7/8" N-80 TBG SEEN SPOT @ 10,718' CONT RIH DOWN 11,191' TAG UP TOTAL 270 JT IN, R/U TBG SWIVEL START
	15:00 17:30	2.50	PRDHEQ	18		P		BRAKE CIRC 40 BBLs 2% KCL, WORK COLLAR MADE APPROX 10' CIRC CLEAN 80 BBLs, R/D TBG SWIVEL TOOH W/ 50 JT 2 7/8" N-80 TBG EOT @ 9,563'
	17:30 19:30	2.00	PRDHEQ	18		P		CLOSE & LOCK PIPE RAMS 1ST BARRIER, CLOSE CSG VAVLE W/ NIGHT CAPS, INSTALL 2 7/8" TIW VAVLE 1ST BARRIER, NIGHT CAP 2ND BARRIER
11/6/2016	6:00 7:30	1.50	PRDHEQ	46		P		HELD JSA MEETING W/ RIG CREW WORKING IN LOW LIGHT LEVELS
	7:30 8:30	1.00	PRDHEQ	18		P		TSIP 0, CSIP 0, OPEN WELL TIH W/ 53 JT 2 7/8" N-80 TBG TAG UP @ 11,198'
	8:30 9:30	1.00	PRDHEQ	18		P		R/U POWER SWIVEL BRAKE CIRC W/ 30 BBLs 2% KCL 3.5 BPM RET 2.5 BPM
	9:30 16:00	6.50	PRDHEQ	18		P		CONT WASH DOWN 11,354' (RETURNING 1/2" TO 3/4" ROCKS FORMATION!) CIRC CLEAN
	16:00 16:30	0.50	PRDHEQ	18		P		R/D POWER SWIVEL RACK BACK DERRICK
	16:30 17:00	0.50	PRDHEQ	18		P		TOOH W/ 53 JT 2 7/8" N-80 TBG EOT @ 9,563'
	17:00 17:00	0.00	PRDHEQ	18		P		CLOSE & LOCK PIPE RAMS 1ST BARRIER, CLOSE CSG VAVLE W/ NIGHT CAP 2ND BARRIER, INSTALL 2 7/8" TIW VAVLE 1ST BARRIER, NIGHT CAP W/ NEEDLE VAVLE GAUGE 2ND BARRIER SDFW
11/7/2016	6:00 6:00	24.00	PRDHEQ	18		P		SDFW
11/8/2016	7:00 8:00	1.00	PRDHEQ	46		P		JELD JSA MEETING W/ RIG CREW PUMP PRESSURE UP
	8:00 8:30	0.50	PRDHEQ	18		P		TSIP 150, CSIP 0, SHUT OFF ALL IGNITION SOURCE BLEED TBG OFF FLOW BACK TANK WATCH FOR FLOW
	8:30 9:30	1.00	PRDHEQ	18		P		OPEN WELL UP TIH W/ 35 JT 2 7/8" N-80 TBG BAD SPOT @ 10,718' TO 10,720' WORK NOTCH COLLAR CONT TIH W/ 20 JT 2 7/8" N-80 TBG TAG UP @ 11,354'
	9:30 13:00	3.50	PRDHEQ	18		P		R/U POWER SWIVEL BRAKE CIRC W/ 65 BBLs 2% KCL CONT CLEAN OUT DOWN 11,394' TAG SOMETHING HARD SEEMS BE TEARING UP NOTCH COLLAR. CIRC CLEAN 75 BBLs 2%
	13:00 13:30	0.50	PRDHEQ	18		P		R/D POWER SWIVEL HANG BACK IN DERRICK
	13:30 16:00	2.50	PRDHEQ	18		P		TOOH W/ 275 JT 2 7/8" N-80 TBG,
	16:00	0.00	PRDHEQ	18		P		LOCK CLOSE PIP RAMS 1ST BARRIER, CLOSE CSG VAVLE 2ND BARRIER, INSTALL 2 7/8" TIW VAVLE 1ST BARRIER, NIGHT CAP W/ NEEDLE VALVE SHUT 2ND BARRIER

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
11/9/2016	6:00 7:00	1.00	PRDHEQ	46		P		HELD JSA MEETING W/ RIG CREW L/D TBG ON TRAILER
	7:00 7:30	0.50	PRDHEQ	18		P		TSIP 0, CSIP 0, SHUT OFF ALL IGNITION SOURCE OPEN WELL UP FLOW BACK TANK WATCH FOR FLOW
	7:30 9:00	1.50	PRDHEQ	18		P		L/D 56 JT 2 7/8" DSS (#56 WAS PARTED @ THE END JT) WAIT ON FISHING TOOLS PUTS FISH TOP @ 10691'
	9:00 12:00	3.00	PRDHEQ	18		N		FISHING TOOLS ARRIVED
	12:00 13:00	1.00	PRDHEQ	53		N		M/U 4 1/8" X 4" GS FLAT BOTTOM SHOE, X/O BUSHING, 4 1/8" OVERSHOT, TWO 4 1/8" EXTENSION BOWLS, TOP SUB, 3 1/8" BUMPER SUB, 3 1/8" JAR, X/O, FOUR 3 1/8" DRILL COLLARS, X/O, 3 1/8" INTENSIFIER, X/O, X/O,
	13:00 15:00	2.00	PRDHEQ	53		N		P/U 40 JT 2 7/8" N-80 DSS TBG, TIH W/ 286 JT 2 7/8" N-80 8RD START SEE OVERSHOT GOING THROUGH BAD CSG @ 10,678'
	15:00 19:30	4.50	PRDHEQ	53		N		R/U POWER SWIVEL W/ JT # 287 FOND FT @ 10,689' START TRY DRESS OFF & CATCH NO LUCK R/D POWER SWIVEL
	19:00 20:00	1.00	PRDHEQ	18		N		TOOH W/ 34 JT 2 7/8" TBG CLOSE LOCK PIPE RAMS 1ST BARRIER, SHUT CSG VAVLE W/ NIGHT CAP 2ND BARRIER, INSTALL 2 7/8" TIW VAVLE 1ST BARRIER, NIGHT CAP W/ SHUT NEEDLE VAVLE 2ND BARRIER (EOT@ 9,608') SDFN
11/10/2016	6:00 7:30	1.50	PRDHEQ	53		N		HELD JSA MEETING W/ RIG CREW HAVE HAND RAIL UP IN PLACE
	7:30 8:00	0.50	PRDHEQ	18		N		TSIP 0, CSIP 0, SHUT OFF ALL IGNITION SOURCE OPEN WELL FLAT TANK CHECK FOR FLOW
	8:00 9:00	1.00	PRDHEQ	53		N		TIH W/ 13 JT 2 7/8" N-80 TBG SEE IF CAN SEE NOTCH COLLAR TAG UP @ BAD SPOT @ 10,708' - 10,718' DID NOT SEE ANYTHING
	9:00 14:30	5.50	PRDHEQ	53		N		TOOH W/ 272 JT 2 7/8" N-80 TBG, X/O, 40 JT 2 7/8" DSS, X/O, X/O, 3 1/8" INTENSIFIER, X/O, FOUR 3 1/8" DRILL COLLARS, X/O, 3 1/8" SUPER JAR, 3 1/8" BUMPER SUB, TOP SUB, TWO 4 1/8" EXTENSION BOWL, 4 1/8" OVERSHOT, 4 1/8" BUSHING, 4 1/8" FLAT BOTTOM KUTRITE SHOE. HAD SOME SCARRING ON THE O/D UP & DOWN BOTTOM END SHOE
	14:30 15:30	1.00	PRDHEQ	53		N		TIH W/ 40 JT 2 7/8" DSS, L/D TBG FLOAT
	15:30 16:00	0.50	PRDHEQ	53		N		TIH W/ FOUR 3 1/8" DRILL COLLARS, L/D ON TBG FLOAT
	16:00 17:00	1.00	PRDHEQ	53		N		TIH W/ 95 JT 2 3/8" N-80 TBG L/D ON TBG FLOAT
	17:00 17:30	0.50	PRDHEQ	18		N		CLOSE & LOCK BLIND RAMS 1ST BARRIER, CLOSE CSG VAVLE W/ NIGHT CAP 2ND BARRIER SDFN
11/11/2016	6:00 7:00	1.00	PRDHEQ	46		P		HELD JSA MEETING W/ RIG CREW HYDRO TESTING TBG
	7:00 7:30	0.50	PRDHEQ	18		P		TSIP 0, CSIP 0, SHUT OFF IGNITION SOURCE OPEN WELL UP
	7:30 14:00	6.50	PRDHEQ	18		P		M/U 5 3/4" NO/GO, 2 JT 2 7/8" N-80 TBG MUD JT, 5 1/2" PBGA, 4' X 2 7/8" PUP JT, 2 7/8" +45 PSN, X/O, 4 JT 3 1/2" L - 80 TBG, X/O, 7" 8RD TAC, TIH W/ 286 JT 2 7/8" N-80 TBG (HYDRO TESTING 8,500 PSI, NO LEAKS!) SET TAC W 25K LAND ON 7 1/16" HANGER TAC @ 9,326.58' PSN @ 9,467.03 EOT @ 9,567.26
	14:00 16:30	2.50	PRDHEQ	18		P		R/D TBG WORK FLOOR, N/D 7 1/16" 5K BOP, 5K X 10K , UP L/D 7 1/16" HANGER, N/U 10K "B" FLANGE, N/U RADGIN, FLOW "T", RADIGIN W/ 2 7/8" TIW VAVLE, NIGHT CAP NEEDLE VAVLE
	16:30 17:00	0.50	PRDHEQ	18		P		RDMO
11/12/2016	7:00 7:30	0.50	PRDHEQ	46		P		HELD JSA MEETING W/ CO - ROD CREW CUT OFF 14/16"

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	7:30 9:30	2.00	PMPNG	18		P		FLUSH TBG W/ TBG 60 BBLS 2% KCL PUMP ROD CHEMICAL CUT OUT 300' 14/16 CO-ROD
	9:30 14:30	5.00	PRDHEQ	41		P		P/U 2 1/2" X 1 3/4" X 40' PUMP RHBC, 2 8' x 1" PONYS, 3' STAB, BROWNING ON/OFF TOOL, 3' STAB, 21 1 1/2" "C" BARS, 2,575' 14/16', 2,575' 14/16', 2,026' 15/16', 1,574', 1 1" x 25' ROD 8' 6' X 1" PONY P/U NEW 1 1/2" X 40' POLISH ROD W/ STUFF BOX REPACKED FILL W/ 5BBLS PRESSURE UP 400 PSI STROKE TEST 1000 PSI HELD GOOD!
	14:30 15:30	1.00	PRDHEQ	18		P		RDMO WEATHERFORD CO - ROD UNIT SLIDE IN ROTA FLEX UNIT HELP HANG OFF TURN OVER PRODUCTION