

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 LC Tribal 8-6D-57				
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 WILDCAT				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR BERRY PETROLEUM COMPANY						7. OPERATOR PHONE 303 999-4044				
8. ADDRESS OF OPERATOR 4000 South 4028 West Rt 2 Box 7735, Roosevelt, UT, 84066						9. OPERATOR E-MAIL kao@bry.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 20G0005500			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Indian Tribe			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		601 FNL 407 FEL		NENE	6	5.0 S	7.0 W	U		
Top of Uppermost Producing Zone		1790 FNL 752 FEL		SENE	6	5.0 S	7.0 W	U		
At Total Depth		2050 FNL 820 FEL		SENE	6	5.0 S	7.0 W	U		
21. COUNTY DUCHESENE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 407			23. NUMBER OF ACRES IN DRILLING UNIT 640				
27. ELEVATION - GROUND LEVEL 7005			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completion) 2			26. PROPOSED DEPTH MD: 6592 TVD: 6266				
			28. BOND NUMBER RLB0005647			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-12400				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	8.625	0 - 1000	24.0	J-55 ST&C	9.5	Class G	640	15.8	1.15
Prod	7.875	5.5	0 - 6592	17.0	N-80 LT&C	9.5	Type V	180	3.82	11.0
							Class G	370	1.7	13.1
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 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 checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Krista Mecham			TITLE Regulatory Permitting Tech			PHONE 435 722-1325				
SIGNATURE			DATE 10/08/2012			EMAIL kmm@bry.com				
API NUMBER ASSIGNED 43013517480000					APPROVAL					

Returned Unapproved

BERRY PETROLEUM COMPANY
 LC Tribal 8-6D-57
 Section 6, T5S, R7W, U.S.B.&M.
 Surface: 601' FNL & 407' FEL (NE/4NE/4)
 BHL: 2050' FNL & 820' FEL (SE/4NE/4)
 Duchesne County, Utah

ONSHORE ORDER NO. 1

DRILLING PROGRAM

A,B Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals

FORMATION	DRILL DEPTH * @ SHL (TVD)	DRILL DEPTH* @ BHL (TVD)	Measured Depth
Green River	0'	0'	0'
Green River Fouch Marker	941'	876'	941'
Mahogany	1,521'	1,456'	1,548'
Tgr3	2,663'	2,595'	2,821'
*Douglas Creek	3,503'	3,434'	3,739'
Black Shale	4,269'	4,151'	4,523'
*Castle Peak	4,489'	4,317'	4,744'
*Uteland Butte	4,808'	4,738'	5,063'
*Wasatch	5,038'	4,966'	5,293'
CR-6 (base U Wasatch)	6,238'	6,166'	6,493'
TD	6,338'	6,266'	6,592'
Base of Moderate Saline Water	6,000'	6,000'	

*PROSPECTIVE PAY

Berry is locating the well at the proposed surface location and directionally drilling to the proposed bottom hole location. By drilling directionally, Berry Petroleum Company will improve field development efficiency by potentially combining multiple surface hole locations together. This will significantly reduce total surface disturbance plus combine the use of access roads and existing pipelines.

Furthermore, Berry hereby certifies that it is the sole working interest owner with 460 feet of the entire directional well bore and the remainder of the Ute Tribal section.

C Pressure Control Equipment : (Schematic Attached)

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc. A 3M system will be utilized. The attached diagram depicts the use of an annular in conjunction with double rams. However, an annular, double rams or both may be used depending on the drilling rig contracted.

Chart recorders will be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a representative upon request.

Mud volumes will be monitored visually.
Upper and Lower Kelly cocks will be utilized.
A gas buster will be utilized, if necessary.

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 1000'	No Pressure Control
1000' – 6592'	11" 3000# Ram Type BOP 11" 3000# Annular BOP

D,E Proposed Casing and Cementing Program

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Casing Size</u>	<u>Type</u>	<u>Connection</u>	<u>Weight</u>
Surface	1000'	12.25"	8-5/8"	J-55	ST&C	24#
Production	6592'	7.875"	5-1/2"	N-80 or LIDA-80	LT&C	17#

Surface Type & Amount

0' – 1000'
Approx.. 640 SX Premium Type G, plus additives or a similar slurry with a minimum weight of 15.8 #/gal and approximate yield of 1.15 cuft/sx, minimum 24 hr compressive strength = 500 psi (Cement will be circulated to surface and topped off, if necessary.)

Production Type & Amount

1000' – 3500'
Lead: +/- 180 sx Premium Type V + additives or similar slurry with a minimum weight of 11.0 #/gal and approximate yield of 3.82 cuft/sx

3500' – 6592'
Tail: +/- 370 sx Premium Class G + additives or similar slurry with a minimum weight of 13.1 #/gal and approximate yield of 1.70cuft/sk.

For production casing, actual cement volumes will be determined from the caliper log plus a minimum of 15% excess.

F Drilling Fluids Program

Interval	Weight	Viscosity	Fluid Loss	Remarks
0' – 1000'	8.4 – 9.5	27	NC	DAP Mud
1000' -6592'	8.4 – 9.5	27	NC	DAP Water

G Evaluation Program

Logging Program: HRI-GR-SP with SDL-DSN-PE: surface casing to TD. Preserve samples from all show intervals.

Sampling: 10' dry cut samples: Douglas Creek to TD. Preserve samples From all show intervals.

Surveys: As deemed necessary

Mud Logger: As deemed necessary

Drill Stem Tests: As deemed necessary

Cores: As deemed necessary

H Anticipated Abnormal Pressures or Temperatures

No abnormal temperatures or pressures or other hazards are anticipated.

Shallow gas and/or water flows are possible below surface casing.

Maximum anticipated bottom hole pressure equals approximately 3256psi* and maximum anticipated surface pressure equals approximately 1806*psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

*Maximum surface pressure = A – (0.22xTD)

I Anticipated Starting Dates and Notification of Operations

Drilling Activity:

Anticipated Commencement Date: Upon approval of the APD.
Drilling Days: Approximately 10 days.
Completion Days: Approximately 7 days.

T5S, R7W, U.S.B.&M.

SW Cor. Sec. 31
Section Corner
Re-Established By
Bearing Trees
(Not Set on Ground)

S 1/4 Cor. Sec. 32
Set Marked Stone

Well location, LC Tribal #8-6D-57, located as shown in LOT 1 of Section 6, T5S, R7W, U.S.B.&M., Duchesne County, Utah.

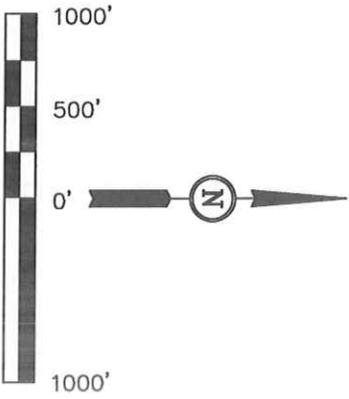
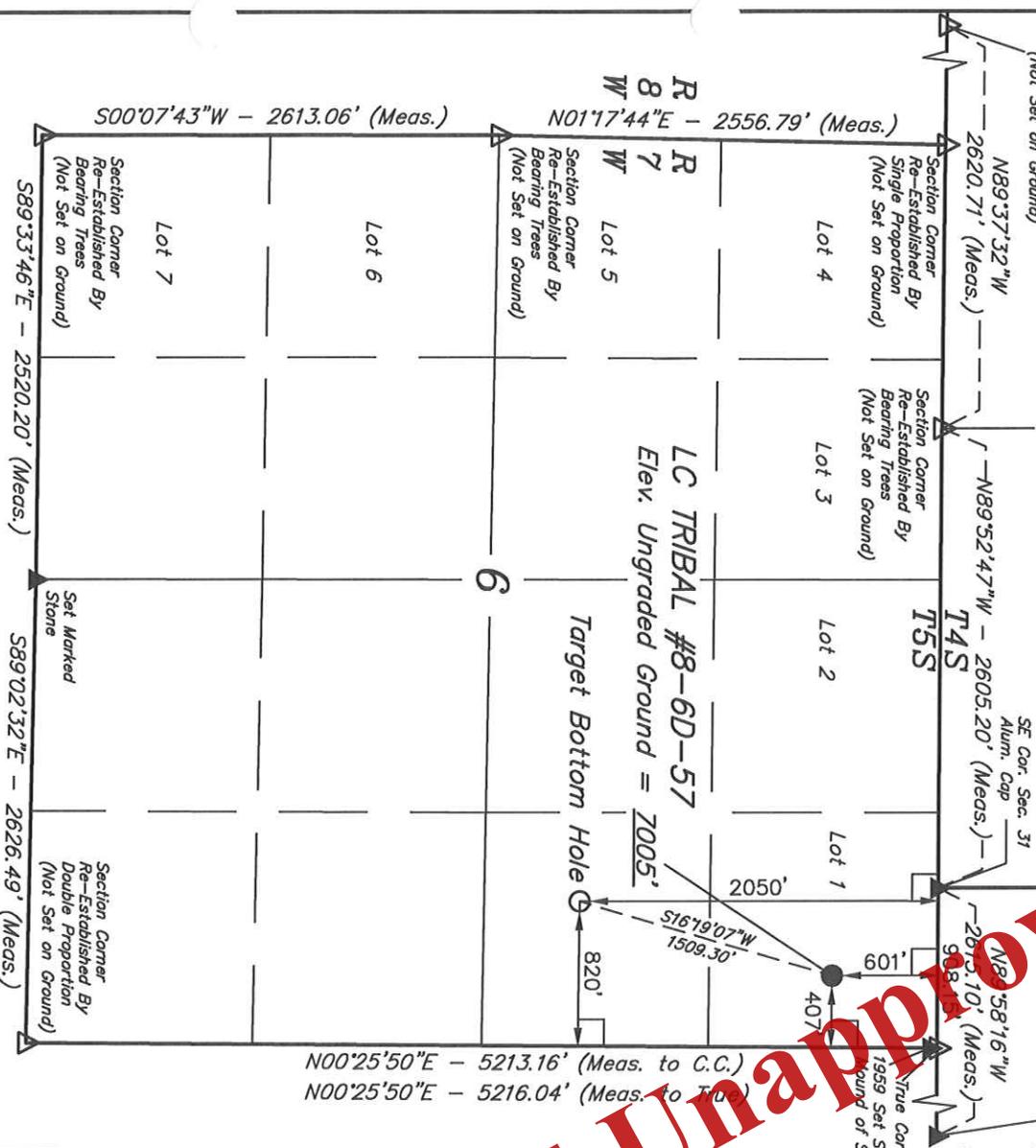
BERRY PETROLEUM COMPANY

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESSNE SE, QUADRANGLE, UTAH, DUCHESSNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

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

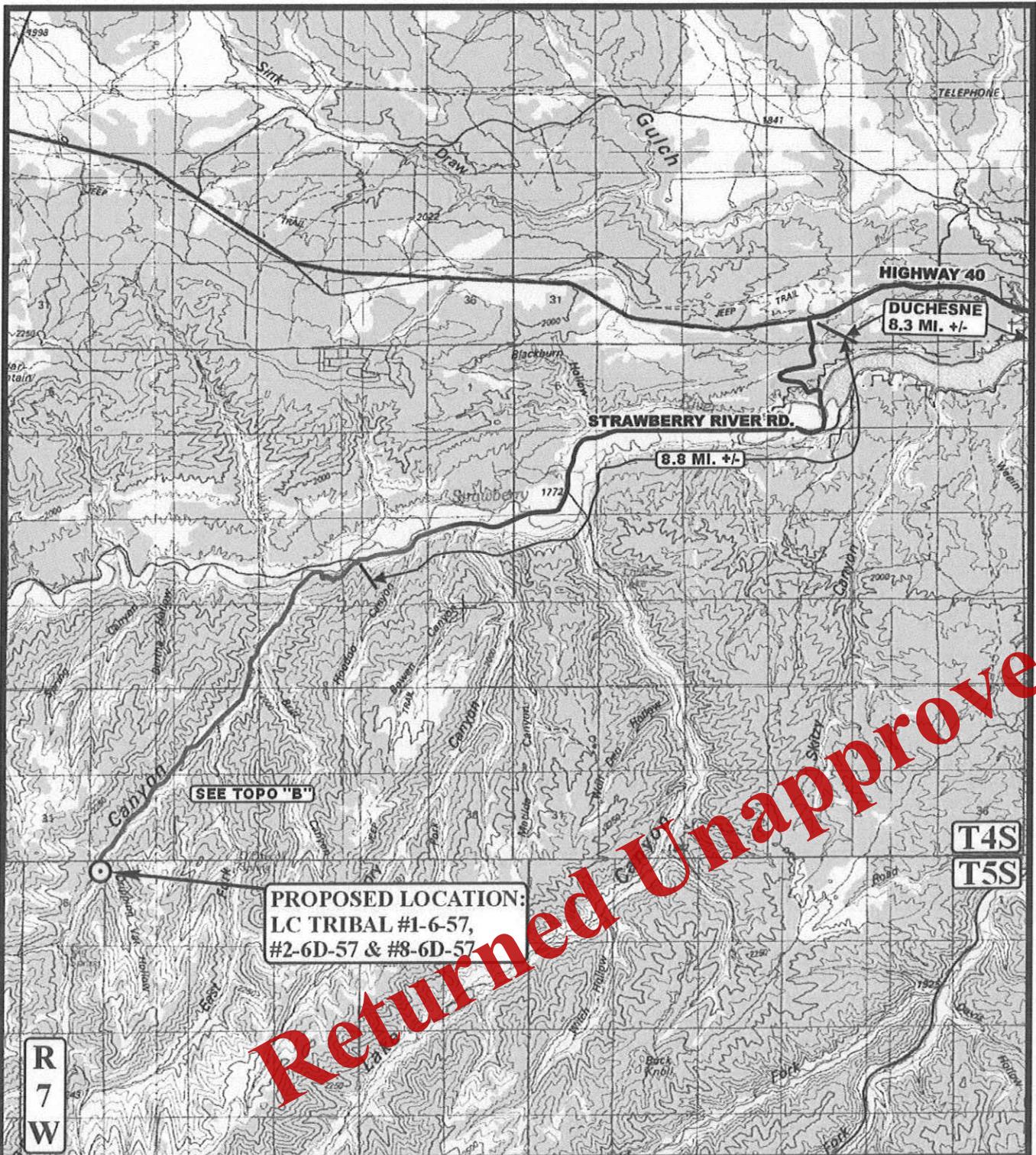
REGISTERED LAND SURVEYOR
 STATE OF UTAH
 No. 161319
 DATE OF EXPIRATION 08-01-12

UINTAH ENGINEERING & LAND SURVEYING
 85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (435) 789-1017

SCALE	1" = 1000'	DATE SURVEYED:	07-17-12	DATE DRAWN:	07-31-12
PARTY	B.H. R.H. K.O.	REFERENCES	G.L.O. PLAT		
WEATHER	HOT	FILE	BERRY PETROLEUM COMPANY		

- LEGEND:**
- = 90° SYMBOL
 - = PROPOSED WELL HEAD.
 - ▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°04'36.55" (40.076819)	LATITUDE = 40°04'50.88" (40.080800)
LONGITUDE = 110°42'27.74" (110.707706)	LONGITUDE = 110°42'22.37" (110.706214)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°04'36.70" (40.076861)	LATITUDE = 40°04'51.03" (40.080842)
LONGITUDE = 110°42'25.18" (110.706994)	LONGITUDE = 110°42'19.80" (110.705500)



Returned Unapproved

R
7
W

SEE TOPO "B"

PROPOSED LOCATION:
LC TRIBAL #1-6-57,
#2-6D-57 & #8-6D-57

T4S
T5S

LEGEND:
○ PROPOSED LOCATION



BERRY PETROLEUM COMPANY
LC TRIBAL #1-6-57, #2-6D-57 & #8-6D-57
SECTION 6, T5S, R7W, U.S.B.&M.
NE 1/4 NE 1/4

UEIS
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD
MAP
SCALE: 1:100,000 | DRAWN BY: C.I. | REVISED: 00-00-00

08 02 12
MONTH DAY YEAR

A
TOPO

Well Planning Proposal FOR

**Berry Petroleum Co.
LC Tribal 8-6D-57
Duchesne Co., UT**

Well File: Design #2 (9/24/12)

Presented By:

Pat Rasmussen
Regional Manager

Bret Wolford
Well Planner



Returned Unapproved



Berry Petroleum Company

Project: Duchesne Co., UT (UT27C)
 Site: Sec.6-T5S-R7W
 Well: LC Tribal 8-6D-57(B)
 Wellbore: Wellbore #1
 Design: Design #2
 Latitude: 40° 4' 51.031 N
 Longitude: 110° 42' 19.800 W
 Ground Level: 7004.00
 WELL @ 7024.00usft



WELL DETAILS: LC Tribal 8-6D-57(B)

+N/-S	+E/-W	Northing	Ground Level:	7004.00	Latitude	Longitude	Slot
0.00	0.00	637479.123	Easting	2222309.273	40° 4' 51.031 N	110° 42' 19.800 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
LCT 8-6D-57 Box	6266.00	-1348.72	-249.95	40° 4' 37.701 N	110° 42' 23.016 W	Polygon
LCT 8-6D-57 Tgt	6266.00	-1447.64	-423.89	40° 4' 36.724 N	110° 42' 25.253 W	Circle (Radius: 100.00)

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00
986.55	23.60	196.32	964.51	-153.26	-44.88	3.00	196.32	159.69	Start 2571.49 hold at 986.55 MD
3558.05	23.60	196.32	3320.99	-1141.13	-334.14	0.00	0.00	1189.04	Start Drop -1.50
5131.15	0.00	0.00	4850.00	-1447.64	-423.89	1.50	180.00	1508.42	Start 1416.00 hold at 5131.15 MD
6547.15	0.00	0.00	6266.00	-1447.64	-423.89	0.00	0.00	1508.42	TD at 6547.15

PROJECT DETAILS: Duchesne Co., UT (UT27C)

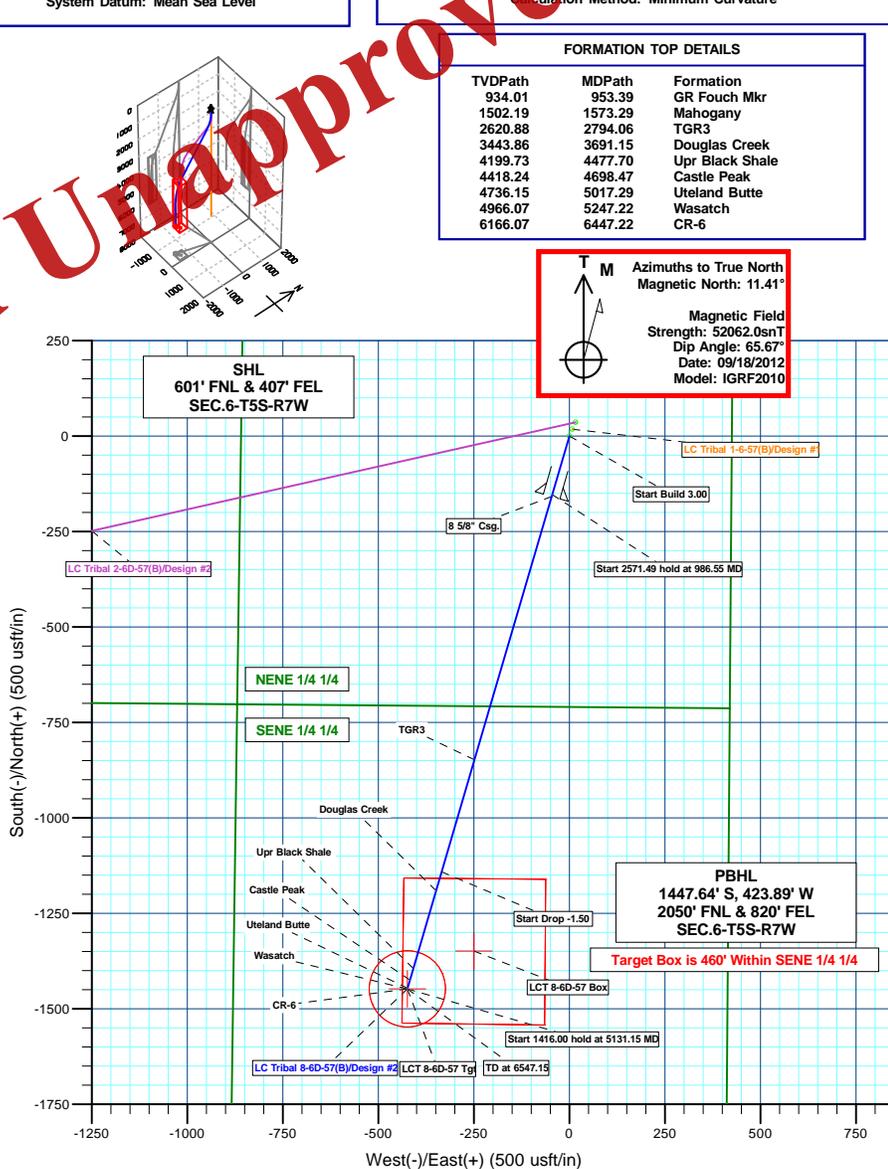
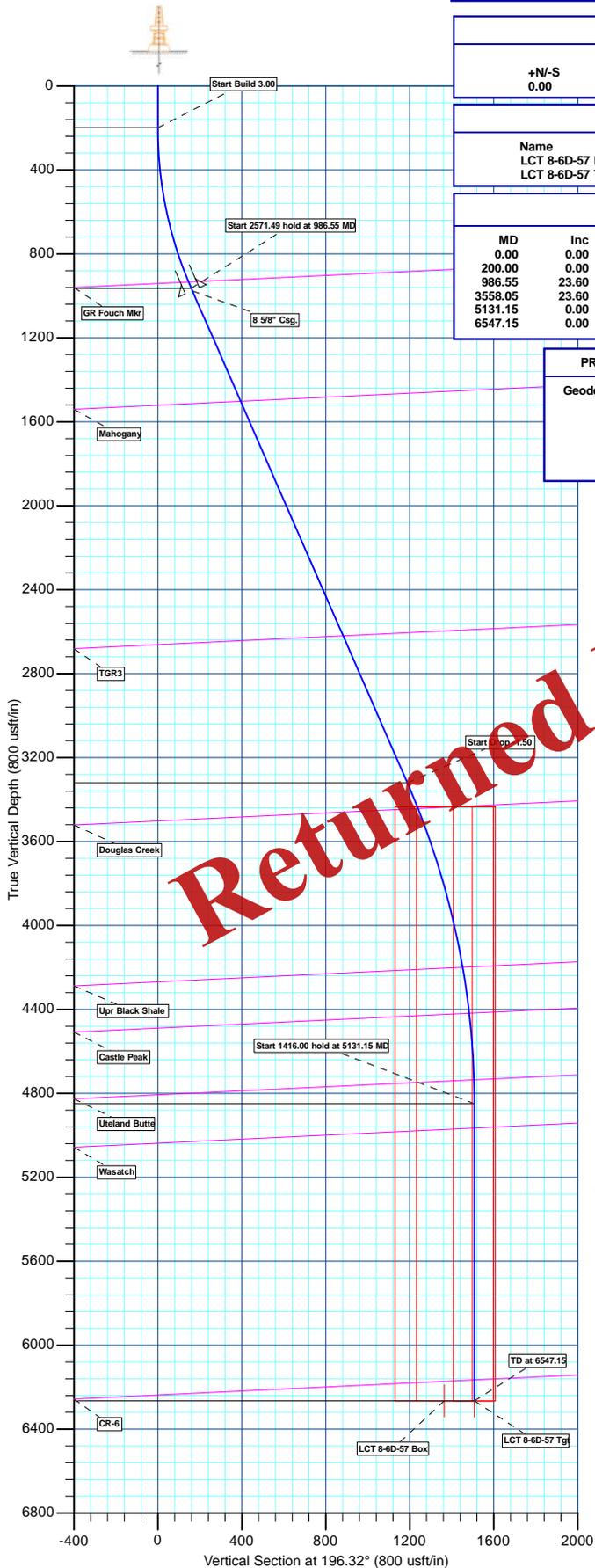
Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Utah Central 4302
 System Datum: Mean Sea Level

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well LC Tribal 8-6D-57(B), True North
 Vertical (TVD) Reference: WELL @ 7024.00usft
 Section VS. Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: WELL @ 7024.00usft
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

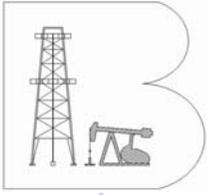
TVDPath	MDPath	Formation
934.01	953.39	GR Fouch Mkr
1502.19	1573.29	Mahogany
2620.88	2794.06	TGR3
3443.86	3691.15	Douglas Creek
4199.73	4477.70	Upr Black Shale
4418.24	4698.47	Castle Peak
4736.15	5017.29	Uteland Butte
4966.07	5247.22	Wasatch
6166.07	6447.22	CR-6



Plan: Design #2 (LC Tribal 8-6D-57(B)/Wellbore #1)

Created By: BRET WOLFORD Date: 10:59 September 21 2012

Received: October 08, 2012



Berry Petroleum Company

Duchesne Co., UT (UT27C)

Sec.6-T5S-R7W

LC Tribal 8-6D-57(B)

Wellbore #1

Plan: Design #2

Standard Planning Report

24 September, 2012

Returned Unapproved





Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well LC Tribal 8-6D-57(B)
Company:	Berry Petroleum Company	TVD Reference:	WELL @ 7024.00usft
Project:	Duchesne Co., UT (UT27C)	MD Reference:	WELL @ 7024.00usft
Site:	Sec.6-T5S-R7W	North Reference:	True
Well:	LC Tribal 8-6D-57(B)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Project	Duchesne Co., UT (UT27C)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site	Sec.6-T5S-R7W				
Site Position:		Northing:	633,240.349 usft	Latitude:	40° 4' 9.368 N
From:	Lat/Long	Easting:	2,219,688.140 usft	Longitude:	110° 42' 54.000 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.50 °

Well	LC Tribal 8-6D-57(B)					
Well Position	+N/-S	4,215.61 usft	Northing:	637,479.123 usft	Latitude:	40° 4' 51.031 N
	+E/-W	2,658.23 usft	Easting:	2,222,309.273 usft	Longitude:	110° 42' 19.800 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	7,004.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	09/18/12	11.41	65.67	52,062

Design	Design #2			
Audit Notes:				
Version:	Present	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	196.32

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
986.55	23.60	196.32	964.51	-153.26	-44.88	3.00	3.00	0.00	196.32	
3,558.05	23.60	196.32	3,320.99	-1,141.13	-334.14	0.00	0.00	0.00	0.00	
5,131.15	0.00	0.00	4,850.00	-1,447.64	-423.89	1.50	-1.50	0.00	180.00	
6,547.15	0.00	0.00	6,266.00	-1,447.64	-423.89	0.00	0.00	0.00	0.00	



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well LC Tribal 8-6D-57(B)
Company:	Berry Petroleum Company	TVD Reference:	WELL @ 7024.00usft
Project:	Duchesne Co., UT (UT27C)	MD Reference:	WELL @ 7024.00usft
Site:	Sec.6-T5S-R7W	North Reference:	True
Well:	LC Tribal 8-6D-57(B)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00										
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	3.00	196.32	299.95	-2.51	-0.74	2.62	3.00	3.00	0.00	0.00
400.00	6.00	196.32	399.63	-10.04	-2.94	10.46	3.00	3.00	0.00	0.00
500.00	9.00	196.32	498.77	-22.57	-6.61	23.51	3.00	3.00	0.00	0.00
600.00	12.00	196.32	597.08	-40.05	-11.73	41.74	3.00	3.00	0.00	0.00
700.00	15.00	196.32	694.31	-62.45	-18.29	65.08	3.00	3.00	0.00	0.00
800.00	18.00	196.32	790.18	-89.71	-26.27	93.48	3.00	3.00	0.00	0.00
900.00	21.00	196.32	884.43	-121.74	-35.65	126.85	3.00	3.00	0.00	0.00
GR Fouch Mkr										
953.39	22.60	196.32	934.01	-140.77	-41.22	146.68	3.00	3.00	0.00	0.00
Start 2571.49 hold at 986.55 MD										
986.55	23.60	196.32	964.51	-153.26	-44.88	153.69	3.00	3.00	0.00	0.00
8 5/8" Csg.										
1,000.00	23.60	196.32	976.83	-158.42	-46.39	165.07	0.00	0.00	0.00	0.00
1,100.00	23.60	196.32	1,068.47	-196.84	-56.64	205.10	0.00	0.00	0.00	0.00
1,200.00	23.60	196.32	1,160.11	-235.25	-68.89	245.13	0.00	0.00	0.00	0.00
1,300.00	23.60	196.32	1,251.74	-273.67	-80.13	285.16	0.00	0.00	0.00	0.00
1,400.00	23.60	196.32	1,343.38	-312.09	-91.38	325.19	0.00	0.00	0.00	0.00
1,500.00	23.60	196.32	1,435.02	-350.50	-102.63	365.22	0.00	0.00	0.00	0.00
Mahogany										
1,573.29	23.60	196.32	1,502.19	-378.66	-110.88	394.56	0.00	0.00	0.00	0.00
1,600.00	23.60	196.32	1,526.66	-388.92	-113.88	405.25	0.00	0.00	0.00	0.00
1,700.00	23.60	196.32	1,618.30	-427.34	-125.13	445.28	0.00	0.00	0.00	0.00
1,800.00	23.60	196.32	1,709.94	-465.75	-136.38	485.31	0.00	0.00	0.00	0.00
1,900.00	23.60	196.32	1,801.58	-504.17	-147.63	525.34	0.00	0.00	0.00	0.00
2,000.00	23.60	196.32	1,893.22	-542.58	-158.88	565.37	0.00	0.00	0.00	0.00
2,100.00	23.60	196.32	1,984.85	-581.00	-170.13	605.40	0.00	0.00	0.00	0.00
2,200.00	23.60	196.32	2,076.49	-619.42	-181.37	645.43	0.00	0.00	0.00	0.00
2,300.00	23.60	196.32	2,168.13	-657.83	-192.62	685.46	0.00	0.00	0.00	0.00
2,400.00	23.60	196.32	2,259.77	-696.25	-203.87	725.49	0.00	0.00	0.00	0.00
2,500.00	23.60	196.32	2,351.41	-734.67	-215.12	765.51	0.00	0.00	0.00	0.00
2,600.00	23.60	196.32	2,443.05	-773.08	-226.37	805.54	0.00	0.00	0.00	0.00
2,700.00	23.60	196.32	2,534.69	-811.50	-237.62	845.57	0.00	0.00	0.00	0.00
TGR3										
2,794.06	23.60	196.32	2,620.88	-847.64	-248.20	883.23	0.00	0.00	0.00	0.00
2,800.00	23.60	196.32	2,626.32	-849.92	-248.87	885.60	0.00	0.00	0.00	0.00
2,900.00	23.60	196.32	2,717.96	-888.33	-260.12	925.63	0.00	0.00	0.00	0.00
3,000.00	23.60	196.32	2,809.60	-926.75	-271.37	965.66	0.00	0.00	0.00	0.00
3,100.00	23.60	196.32	2,901.24	-965.17	-282.61	1,005.69	0.00	0.00	0.00	0.00
3,200.00	23.60	196.32	2,992.88	-1,003.58	-293.86	1,045.72	0.00	0.00	0.00	0.00
3,300.00	23.60	196.32	3,084.52	-1,042.00	-305.11	1,085.75	0.00	0.00	0.00	0.00
3,400.00	23.60	196.32	3,176.16	-1,080.41	-316.36	1,125.78	0.00	0.00	0.00	0.00
3,500.00	23.60	196.32	3,267.80	-1,118.83	-327.61	1,165.81	0.00	0.00	0.00	0.00
Start Drop -1.50										
3,558.05	23.60	196.32	3,320.99	-1,141.13	-334.14	1,189.04	0.00	0.00	0.00	0.00
3,600.00	22.97	196.32	3,359.53	-1,157.04	-338.80	1,205.63	1.50	-1.50	0.00	0.00
Douglas Creek										
3,691.15	21.60	196.32	3,443.86	-1,190.21	-348.51	1,240.19	1.50	-1.50	0.00	0.00
3,700.00	21.47	196.32	3,452.10	-1,193.33	-349.42	1,243.44	1.50	-1.50	0.00	0.00
3,800.00	19.97	196.32	3,545.63	-1,227.28	-359.37	1,278.81	1.50	-1.50	0.00	0.00

Returned Unapproved



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well LC Tribal 8-6D-57(B)
Company:	Berry Petroleum Company	TVD Reference:	WELL @ 7024.00usft
Project:	Duchesne Co., UT (UT27C)	MD Reference:	WELL @ 7024.00usft
Site:	Sec.6-T5S-R7W	North Reference:	True
Well:	LC Tribal 8-6D-57(B)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,900.00	18.47	196.32	3,640.05	-1,258.87	-368.62	1,311.73	1.50	-1.50	0.00	
4,000.00	16.97	196.32	3,735.31	-1,288.07	-377.17	1,342.16	1.50	-1.50	0.00	
4,100.00	15.47	196.32	3,831.33	-1,314.88	-385.01	1,370.09	1.50	-1.50	0.00	
4,200.00	13.97	196.32	3,928.04	-1,339.26	-392.15	1,395.49	1.50	-1.50	0.00	
4,300.00	12.47	196.32	4,025.39	-1,361.20	-398.58	1,418.35	1.50	-1.50	0.00	
4,400.00	10.97	196.32	4,123.30	-1,380.69	-404.29	1,438.66	1.50	-1.50	0.00	
Upr Black Shale										
4,477.70	9.80	196.32	4,199.73	-1,394.13	-408.22	1,452.67	1.50	-1.50	0.00	
4,500.00	9.47	196.32	4,221.72	-1,397.71	-409.27	1,456.40	1.50	-1.50	0.00	
4,600.00	7.97	196.32	4,320.56	-1,412.26	-413.53	1,471.55	1.50	-1.50	0.00	
Castle Peak										
4,698.47	6.49	196.32	4,418.24	-1,424.15	-417.01	1,483.94	1.50	-1.50	0.00	
4,700.00	6.47	196.32	4,419.76	-1,424.31	-417.06	1,484.12	1.50	-1.50	0.00	
4,800.00	4.97	196.32	4,519.26	-1,433.87	-419.86	1,494.66	1.50	-1.50	0.00	
4,900.00	3.47	196.32	4,618.99	-1,440.93	-421.93	1,501.43	1.50	-1.50	0.00	
5,000.00	1.97	196.32	4,718.87	-1,445.48	-423.26	1,506.77	1.50	-1.50	0.00	
Uteland Butte										
5,017.29	1.71	196.32	4,736.15	-1,446.01	-423.41	1,506.73	1.50	-1.50	0.00	
5,100.00	0.47	196.32	4,818.85	-1,447.52	-423.85	1,508.30	1.50	-1.50	0.00	
Start 1416.00 hold at 5131.15 MD										
5,131.15	0.00	0.00	4,850.00	-1,447.64	-423.89	1,508.42	1.50	-1.50	0.00	
5,200.00	0.00	0.00	4,918.85	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
Wasatch										
5,247.22	0.00	0.00	4,966.07	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,018.85	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,118.85	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,218.85	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,318.85	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,418.85	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,518.85	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,618.85	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,718.85	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,818.85	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
6,200.00	0.00	0.00	5,918.85	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,018.85	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,118.85	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
CR-6										
6,447.22	0.00	0.00	6,166.07	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,218.85	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	
TD at 6547.15 - LCT 8-6D-57 Box - LCT 8-6D-57 Tgt										
6,547.15	0.00	0.00	6,266.00	-1,447.64	-423.89	1,508.42	0.00	0.00	0.00	

Returned Unapproved



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well LC Tribal 8-6D-57(B)
Company:	Berry Petroleum Company	TVD Reference:	WELL @ 7024.00usft
Project:	Duchesne Co., UT (UT27C)	MD Reference:	WELL @ 7024.00usft
Site:	Sec.6-T5S-R7W	North Reference:	True
Well:	LC Tribal 8-6D-57(B)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LCT 8-6D-57 Box	0.00	0.00	6,266.00	-1,348.72	-249.95	636,128.236	2,222,071.312	40° 4' 37.701 N	110° 42' 23.016 W
- hit/miss target									
- plan misses target center by 200.10usft at 6547.15usft MD (6266.00 TVD, -1447.64 N, -423.89 E)									
- Polygon									
Point 1			6,266.00	191.30	-183.30	636,317.90	2,221,886.32		
Point 2			6,266.00	188.20	188.20	636,318.10	2,222,257.83		
Point 3			6,266.00	-193.50	185.40	635,936.39	2,222,258.42		
Point 4			6,266.00	-188.50	-188.50	635,938.07	2,221,884.49		
LCT 8-6D-57 Tgt	0.00	0.00	6,266.00	-1,447.64	-423.89	636,027.775	2,221,898.258	40° 4' 36.724 N	110° 42' 25.253 W
- plan hits target center									
- Circle (radius 100.00)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,000.00	976.83	8 5/8" Csg.	8-5/8	11	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
953.39	941.00	CR Touch Mkr		-2.73	196.32
1,573.29	1,521.00	Mahogany		-2.73	196.32
2,794.06	2,763.00	TGR3		-2.73	196.32
3,691.15	3,503.00	Douglas Creek		-2.73	196.32
4,477.70	4,269.00	Upr Black Shale		-2.73	196.32
5,696.47	4,489.00	Castle Peak		-2.73	196.32
5,017.29	4,808.00	Uteland Butte		-2.73	196.32
5,247.22	5,038.00	Wasatch		-2.73	196.32
6,447.22	6,238.00	CR-6		-2.73	196.32

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
200.00	200.00	0.00	0.00	Start Build 3.00
986.55	964.51	-153.26	-44.88	Start 2571.49 hold at 986.55 MD
3,558.05	3,320.99	-1,141.13	-334.14	Start Drop -1.50
5,131.15	4,850.00	-1,447.64	-423.89	Start 1416.00 hold at 5131.15 MD
6,547.15	6,266.00	-1,447.64	-423.89	TD at 6547.15



Berry Petroleum Company

Duchesne Co., UT (UT27C)

Sec.6-T5S-R7W

LC Tribal 8-6D-57(B)

Wellbore #1

Design #2

Anticollision Report

24 September, 2012

Returned Unapproved



Received: October 08, 2012



Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well LC Tribal 8-6D-57(B)
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7024.00usft
Reference Site:	Sec.6-T5S-R7W	MD Reference:	WELL @ 7024.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	LC Tribal 8-6D-57(B)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Reference	Design #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	09/24/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	6,547.15	Design #2 (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec.6-T5S-R7W						
LC Tribal 1-6-57(B) - Wellbore #1 - Design #1	200.00	200.00	19.82	19.19	31.497	CC, ES
LC Tribal 1-6-57(B) - Wellbore #1 - Design #1	400.00	399.63	30.23	28.71	19.810	SF
LC Tribal 2-6D-57(B) - Wellbore #1 - Design #2	100.00	100.00	39.87	39.69	221.747	CC
LC Tribal 2-6D-57(B) - Wellbore #1 - Design #2	200.00	200.00	39.87	39.24	63.356	ES
LC Tribal 2-6D-57(B) - Wellbore #1 - Design #2	600.00	600.48	68.52	65.83	25.476	SF

Offset Design	Sec.6-T5S-R7W LC Tribal 1-6-57(B) - Wellbore #1 - Design #1										Offset Site Error:	0.00 usft	
Survey Program:	0-MWD										Offset Well Error:	0.00 usft	
Reference	Offset	Semi Major Axis					Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	23.28	18.21	7.83	19.82				
100.00	100.00	100.00	100.00	0.09	0.09	23.28	18.21	7.83	19.82	19.64	0.18	110.238	
200.00	200.00	200.00	200.00	0.31	0.31	23.28	18.21	7.83	19.82	19.19	0.63	31.497	CC, ES
300.00	299.95	299.95	299.95	0.52	0.54	-173.84	18.21	7.83	22.42	21.35	1.07	20.873	
400.00	399.63	399.63	399.63	0.75	0.76	-175.42	18.21	7.83	30.23	28.71	1.53	19.810	SF
500.00	498.77	498.77	498.77	1.02	0.99	-176.78	18.21	7.83	43.26	41.27	1.99	21.736	
600.00	597.08	597.08	597.08	1.38	1.21	-177.71	18.21	7.83	61.46	59.00	2.46	24.978	
700.00	694.31	694.31	694.31	1.83	1.43	-178.32	18.21	7.83	84.79	81.85	2.94	28.878	
800.00	790.18	790.18	790.18	2.36	1.64	-178.72	18.21	7.83	113.18	109.76	3.42	33.127	
900.00	884.43	884.43	884.43	2.99	1.85	-178.99	18.21	7.83	146.55	142.65	3.90	37.564	
986.55	964.51	964.51	964.51	3.60	2.03	-179.16	18.21	7.83	179.38	175.06	4.32	41.485	
1,000.00	976.83	976.83	976.83	3.70	2.06	-179.19	18.21	7.83	184.76	180.37	4.39	42.078	
1,100.00	1,068.47	1,068.47	1,068.47	4.46	2.27	-179.33	18.21	7.83	224.79	219.89	4.90	45.909	
1,200.00	1,160.11	1,160.11	1,160.11	5.22	2.47	-179.43	18.21	7.83	264.82	259.41	5.41	48.937	
1,300.00	1,251.74	1,251.74	1,251.74	5.99	2.68	-179.51	18.21	7.83	304.85	298.91	5.93	51.379	
1,400.00	1,343.38	1,343.38	1,343.38	6.77	2.88	-179.56	18.21	7.83	344.88	338.41	6.46	53.385	
1,500.00	1,435.02	1,435.02	1,435.02	7.54	3.09	-179.61	18.21	7.83	384.90	377.91	6.99	55.057	
1,600.00	1,526.66	1,526.66	1,526.66	8.32	3.30	-179.65	18.21	7.83	424.93	417.41	7.53	56.469	
1,700.00	1,618.30	1,618.30	1,618.30	9.10	3.50	-179.68	18.21	7.83	464.96	456.90	8.06	57.677	
1,800.00	1,709.94	1,709.94	1,709.94	9.88	3.71	-179.70	18.21	7.83	504.99	496.39	8.60	58.720	
1,900.00	1,801.58	1,801.58	1,801.58	10.66	3.91	-179.72	18.21	7.83	545.02	535.88	9.14	59.629	
2,000.00	1,893.22	1,893.22	1,893.22	11.44	4.12	-179.74	18.21	7.83	585.05	575.37	9.68	60.428	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well LC Tribal 8-6D-57(B)
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7024.00usft
Reference Site:	Sec.6-T5S-R7W	MD Reference:	WELL @ 7024.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	LC Tribal 8-6D-57(B)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,100.00	1,984.85	1,984.85	1,984.85	12.22	4.33	-179.76	18.21	7.83	625.08	614.85	10.22	61.135		
2,200.00	2,076.49	2,076.49	2,076.49	13.00	4.53	-179.77	18.21	7.83	665.11	654.34	10.77	61.764		
2,300.00	2,168.13	2,168.13	2,168.13	13.78	4.74	-179.79	18.21	7.83	705.14	693.82	11.31	62.328		
2,400.00	2,259.77	2,259.77	2,259.77	14.57	4.94	-179.80	18.21	7.83	745.17	733.31	11.86	62.836		
2,500.00	2,351.41	2,351.41	2,351.41	15.35	5.15	-179.81	18.21	7.83	785.19	772.79	12.41	63.296		
2,600.00	2,443.05	2,443.05	2,443.05	16.13	5.36	-179.82	18.21	7.83	825.22	812.27	12.95	63.714		
2,700.00	2,534.69	2,534.69	2,534.69	16.92	5.56	-179.83	18.21	7.83	865.25	851.75	13.50	64.09		
2,800.00	2,626.32	2,626.32	2,626.32	17.70	5.77	-179.83	18.21	7.83	905.28	891.23	14.05	64.45		
2,900.00	2,717.96	2,717.96	2,717.96	18.48	5.97	-179.84	18.21	7.83	945.31	930.72	14.60	64.765		
3,000.00	2,809.60	2,809.60	2,809.60	19.27	6.18	-179.85	18.21	7.83	985.34	970.20	15.15	65.061		
3,100.00	2,901.24	2,901.24	2,901.24	20.05	6.39	-179.85	18.21	7.83	1,025.37	1,009.83	15.69	65.335		
3,200.00	2,992.88	2,992.88	2,992.88	20.83	6.59	-179.86	18.21	7.83	1,065.40	1,044.16	16.24	65.588		
3,300.00	3,084.52	3,084.52	3,084.52	21.62	6.80	-179.86	18.21	7.83	1,105.43	1,088.34	16.79	65.823		
3,400.00	3,176.16	3,176.16	3,176.16	22.40	7.00	-179.87	18.21	7.83	1,145.46	1,128.11	17.34	66.042		
3,500.00	3,267.80	3,267.80	3,267.80	23.19	7.21	-179.87	18.21	7.83	1,185.49	1,167.59	17.89	66.247		
3,558.05	3,320.99	3,320.99	3,320.99	23.64	7.33	-179.88	18.21	7.83	1,208.72	1,190.51	18.21	66.359		
3,600.00	3,359.53	3,359.53	3,359.53	23.92	7.42	-179.88	18.21	7.83	1,225.31	1,206.84	18.47	66.348		
3,700.00	3,452.10	3,452.10	3,452.10	24.46	7.62	-179.88	18.21	7.83	1,263.12	1,244.07	19.04	66.324		
3,800.00	3,545.63	3,545.63	3,545.63	24.97	7.83	-179.89	18.21	7.83	1,298.49	1,278.89	19.60	66.236		
3,900.00	3,640.05	3,640.05	3,640.05	25.46	8.05	-179.89	18.21	7.83	1,331.41	1,311.26	20.15	66.091		
4,000.00	3,735.31	3,735.31	3,735.31	25.93	8.26	-179.89	18.21	7.83	1,361.84	1,341.17	20.67	65.895		
4,100.00	3,831.33	3,831.33	3,831.33	26.36	8.48	-179.90	18.21	7.83	1,389.76	1,368.60	21.17	65.653		
4,200.00	3,928.04	3,928.04	3,928.04	26.77	8.69	-179.90	18.21	7.83	1,415.17	1,393.52	21.65	65.371		
4,300.00	4,025.39	4,025.39	4,025.39	27.14	8.91	-179.90	18.21	7.83	1,438.03	1,415.93	22.11	65.051		
4,400.00	4,123.30	4,123.30	4,123.30	27.49	9.13	-179.90	18.21	7.83	1,458.34	1,435.80	22.54	64.697		
4,500.00	4,221.72	4,221.72	4,221.72	27.79	9.35	-179.91	18.21	7.83	1,476.08	1,453.12	22.95	64.310		
4,600.00	4,320.56	4,320.56	4,320.56	28.07	9.58	-179.91	18.21	7.83	1,491.23	1,467.89	23.34	63.893		
4,700.00	4,419.76	4,419.76	4,419.76	28.30	9.80	-179.91	18.21	7.83	1,503.80	1,480.09	23.70	63.446		
4,800.00	4,519.26	4,519.26	4,519.26	28.51	10.02	-179.91	18.21	7.83	1,513.76	1,489.72	24.04	62.972		
4,900.00	4,618.99	4,618.99	4,618.99	28.67	10.25	-179.91	18.21	7.83	1,521.11	1,496.76	24.35	62.469		
5,000.00	4,718.87	4,718.87	4,718.87	28.80	10.47	-179.91	18.21	7.83	1,525.85	1,501.22	24.63	61.938		
5,100.00	4,818.85	4,818.85	4,818.85	28.90	10.70	-179.91	18.21	7.83	1,527.98	1,503.08	24.89	61.380		
5,131.15	4,850.00	4,850.00	4,850.00	28.92	10.77	16.41	18.21	7.83	1,528.10	1,503.13	24.97	61.196		
5,200.00	4,918.85	4,918.85	4,918.85	28.97	10.92	16.41	18.21	7.83	1,528.10	1,502.88	25.22	60.586		
5,300.00	5,018.85	5,018.85	5,018.85	29.04	11.15	16.41	18.21	7.83	1,528.10	1,502.52	25.58	59.730		
5,400.00	5,118.85	5,118.85	5,118.85	29.11	11.37	16.41	18.21	7.83	1,528.10	1,502.16	25.95	58.893		
5,500.00	5,218.85	5,218.85	5,218.85	29.18	11.60	16.41	18.21	7.83	1,528.10	1,501.79	26.31	58.074		
5,600.00	5,318.85	5,318.85	5,318.85	29.25	11.82	16.41	18.21	7.83	1,528.10	1,501.42	26.68	57.274		
5,700.00	5,418.85	5,418.85	5,418.85	29.32	12.04	16.41	18.21	7.83	1,528.10	1,501.05	27.05	56.491		
5,800.00	5,518.85	5,518.85	5,518.85	29.40	12.27	16.41	18.21	7.83	1,528.10	1,500.68	27.42	55.725		
5,900.00	5,618.85	5,618.85	5,618.85	29.48	12.49	16.41	18.21	7.83	1,528.10	1,500.31	27.80	54.976		
6,000.00	5,718.85	5,718.85	5,718.85	29.55	12.72	16.41	18.21	7.83	1,528.10	1,499.93	28.17	54.243		
6,100.00	5,818.85	5,818.85	5,818.85	29.63	12.94	16.41	18.21	7.83	1,528.10	1,499.55	28.55	53.527		
6,200.00	5,918.85	5,918.85	5,918.85	29.71	13.17	16.41	18.21	7.83	1,528.10	1,499.18	28.93	52.825		
6,300.00	6,018.85	6,018.85	6,018.85	29.80	13.39	16.41	18.21	7.83	1,528.10	1,498.79	29.31	52.139		
6,400.00	6,118.85	6,118.85	6,118.85	29.88	13.62	16.41	18.21	7.83	1,528.10	1,498.41	29.69	51.468		
6,500.00	6,218.85	6,218.85	6,218.85	29.97	13.84	16.41	18.21	7.83	1,528.10	1,498.03	30.07	50.811		
6,547.15	6,266.00	6,266.00	6,266.00	30.01	13.95	16.41	18.21	7.83	1,528.10	1,497.85	30.26	50.506		

Returned Unapproved



Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well LC Tribal 8-6D-57(B)
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7024.00usft
Reference Site:	Sec.6-T5S-R7W	MD Reference:	WELL @ 7024.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	LC Tribal 8-6D-57(B)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	24.02	36.42	16.23	39.87					
100.00	100.00	100.00	100.00	0.09	0.09	24.02	36.42	16.23	39.87	39.69	0.18	221.747	CC	
200.00	200.00	200.00	200.00	0.31	0.31	24.02	36.42	16.23	39.87	39.24	0.63	63.356	ES	
300.00	299.95	301.19	301.14	0.52	0.53	-175.80	35.83	13.61	40.96	39.90	1.06	38.626		
400.00	399.63	401.95	401.57	0.75	0.77	174.91	34.08	5.82	45.03	43.52	1.51	29.809		
500.00	498.77	501.84	500.59	1.02	1.06	163.16	31.20	-6.99	53.80	51.76	2.04	26.353		
600.00	597.08	600.48	597.55	1.38	1.42	152.38	27.25	-24.59	68.52	65.83	2.69	25.47	SF	
700.00	694.31	697.50	691.89	1.83	1.87	144.01	22.29	-46.63	89.39	85.92	3.48	25.12		
800.00	790.18	792.56	783.10	2.36	2.39	137.86	16.42	-72.74	116.08	111.67	4.40	26.352		
900.00	884.43	885.40	870.79	2.99	2.99	133.33	9.74	-102.48	148.12	142.65	5.47	27.093		
986.55	964.51	963.78	943.59	3.60	3.58	130.30	3.37	-130.80	179.87	173.23	6.49	27.721		
1,000.00	976.83	975.80	954.64	3.70	3.67	130.00	2.34	-135.40	185.09	177.44	6.65	27.816		
1,100.00	1,068.47	1,066.91	1,038.02	4.46	4.41	127.89	-5.72	-171.24	224.91	216.77	7.95	28.244		
1,200.00	1,160.11	1,158.57	1,121.86	5.22	5.17	126.38	-13.84	-207.38	269.95	254.68	9.26	28.489		
1,300.00	1,251.74	1,250.24	1,205.71	5.99	5.94	125.26	-21.96	-245.73	306.60	293.00	10.60	28.643		
1,400.00	1,343.38	1,341.90	1,289.55	6.77	6.72	124.40	-30.08	-289.61	343.32	331.38	11.94	28.758		
1,500.00	1,435.02	1,433.56	1,373.40	7.54	7.50	123.72	-38.21	-345.79	383.10	369.81	13.29	28.836		
1,600.00	1,526.66	1,525.22	1,457.25	8.32	8.28	123.16	-46.33	-351.93	422.91	408.28	14.64	28.894		
1,700.00	1,618.30	1,616.89	1,541.09	9.10	9.07	122.71	-54.45	-388.07	462.76	446.76	15.99	28.937		
1,800.00	1,709.94	1,708.55	1,624.94	9.88	9.85	122.33	-62.57	-424.21	502.62	485.27	17.35	28.971		
1,900.00	1,801.58	1,800.21	1,708.78	10.66	10.64	121.95	-70.70	-460.35	542.50	523.79	18.71	28.997		
2,000.00	1,893.22	1,891.88	1,792.63	11.44	11.42	121.71	-78.82	-496.49	582.39	562.32	20.07	29.018		
2,100.00	1,984.85	1,983.54	1,876.47	12.22	12.21	121.46	-86.94	-532.63	622.29	600.86	21.43	29.035		
2,200.00	2,076.49	2,075.20	1,960.32	13.00	13.00	121.24	-95.06	-568.76	662.20	639.41	22.80	29.049		
2,300.00	2,168.13	2,166.86	2,044.41	13.79	13.79	121.05	-103.19	-604.90	702.12	677.96	24.16	29.061		
2,400.00	2,259.77	2,258.53	2,128.01	14.57	14.58	120.87	-111.31	-641.04	742.05	716.52	25.53	29.071		
2,500.00	2,351.41	2,350.17	2,211.66	15.35	15.37	120.72	-119.43	-677.18	781.98	755.09	26.89	29.080		
2,600.00	2,443.05	2,441.85	2,295.70	16.13	16.16	120.58	-127.55	-713.32	821.91	793.65	28.26	29.087		
2,700.00	2,534.69	2,533.51	2,379.55	16.92	16.95	120.45	-135.68	-749.46	861.85	832.23	29.62	29.093		
2,800.00	2,626.32	2,625.18	2,463.39	17.70	17.74	120.34	-143.80	-785.60	901.79	870.80	30.99	29.098		
2,900.00	2,717.96	2,716.84	2,547.24	18.48	18.53	120.23	-151.92	-821.73	941.73	909.38	32.36	29.103		
3,000.00	2,809.60	2,808.50	2,631.08	19.27	19.32	120.13	-160.04	-857.87	981.68	947.95	33.73	29.107		
3,100.00	2,901.24	2,900.17	2,714.93	20.05	20.11	120.04	-168.17	-894.01	1,021.63	986.53	35.09	29.111		
3,200.00	2,992.88	2,991.83	2,798.78	20.83	20.90	119.96	-176.29	-930.15	1,061.58	1,025.12	36.46	29.114		
3,300.00	3,084.52	3,083.49	2,882.62	21.62	21.69	119.88	-184.41	-966.29	1,101.53	1,063.70	37.83	29.117		
3,400.00	3,176.16	3,175.15	2,966.47	22.40	22.48	119.81	-192.53	-1,002.43	1,141.49	1,102.28	39.20	29.119		
3,500.00	3,267.80	3,266.82	3,050.31	23.19	23.28	119.75	-200.66	-1,038.56	1,181.44	1,140.87	40.57	29.121		
3,558.05	3,320.99	3,320.02	3,098.98	23.64	23.73	119.71	-205.37	-1,059.54	1,204.63	1,163.27	41.36	29.123		
3,600.00	3,359.53	3,358.52	3,134.20	23.92	24.07	119.91	-208.78	-1,074.72	1,221.29	1,179.35	41.94	29.120		
3,700.00	3,452.10	3,450.60	3,218.43	24.46	24.86	120.30	-216.94	-1,111.02	1,260.15	1,216.94	43.21	29.164		
3,800.00	3,545.63	3,543.09	3,303.02	24.97	25.66	120.56	-225.14	-1,147.49	1,297.80	1,253.33	44.46	29.187		
3,900.00	3,640.05	3,642.61	3,394.15	25.46	26.48	120.70	-233.91	-1,186.53	1,334.16	1,288.45	45.71	29.185		
4,000.00	3,735.31	3,755.00	3,498.07	25.93	27.25	120.77	-243.29	-1,228.27	1,368.29	1,321.39	46.90	29.172		
4,100.00	3,831.33	3,869.27	3,604.98	26.36	27.94	120.82	-252.14	-1,267.63	1,399.87	1,351.88	47.99	29.168		
4,200.00	3,928.04	3,985.33	3,714.75	26.77	28.59	120.87	-260.40	-1,304.40	1,428.85	1,379.83	49.02	29.149		
4,300.00	4,025.39	4,103.08	3,827.23	27.14	29.20	120.90	-268.04	-1,338.35	1,455.15	1,405.17	49.97	29.120		
4,400.00	4,123.30	4,222.39	3,942.24	27.48	29.74	120.93	-274.99	-1,369.30	1,478.71	1,427.87	50.84	29.084		
4,500.00	4,221.72	4,343.12	4,059.57	27.79	30.24	120.94	-281.22	-1,397.03	1,499.50	1,447.86	51.63	29.041		
4,600.00	4,320.56	4,465.13	4,179.00	28.07	30.68	120.95	-286.69	-1,421.36	1,517.45	1,465.11	52.34	28.991		
4,700.00	4,419.76	4,588.25	4,300.26	28.30	31.07	120.94	-291.36	-1,442.13	1,532.52	1,479.56	52.96	28.935		
4,800.00	4,519.26	4,712.31	4,423.08	28.51	31.39	120.93	-295.20	-1,459.19	1,544.68	1,491.19	53.49	28.877		
4,900.00	4,618.99	4,837.13	4,547.15	28.67	31.66	120.90	-298.17	-1,472.42	1,553.90	1,499.97	53.93	28.815		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well LC Tribal 8-6D-57(B)
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7024.00usft
Reference Site:	Sec.6-T5S-R7W	MD Reference:	WELL @ 7024.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	LC Tribal 8-6D-57(B)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.00	4,718.87	4,962.52	4,672.17	28.80	31.87	120.87	-300.26	-1,481.72	1,560.14	1,505.87	54.27	28.748			
5,100.00	4,818.85	5,088.28	4,797.81	28.90	32.02	120.82	-301.45	-1,487.02	1,563.40	1,508.88	54.52	28.673			
5,131.15	4,850.00	5,127.51	4,837.03	28.92	32.05	-42.87	-301.64	-1,487.84	1,563.81	1,509.22	54.59	28.648			
5,200.00	4,918.85	5,209.33	4,918.85	28.97	32.11	-42.89	-301.75	-1,488.35	1,564.01	1,509.31	54.71	28.589			
5,300.00	5,018.85	5,309.33	5,018.85	29.04	32.18	-42.89	-301.75	-1,488.35	1,564.01	1,509.16	54.86	28.510			
5,400.00	5,118.85	5,409.33	5,118.85	29.11	32.25	-42.89	-301.75	-1,488.35	1,564.01	1,509.00	55.01	28.431			
5,500.00	5,218.85	5,509.33	5,218.85	29.18	32.33	-42.89	-301.75	-1,488.35	1,564.01	1,508.85	55.17	28.351			
5,600.00	5,318.85	5,609.33	5,318.85	29.25	32.40	-42.89	-301.75	-1,488.35	1,564.01	1,508.69	55.33	28.268			
5,700.00	5,418.85	5,709.33	5,418.85	29.32	32.48	-42.89	-301.75	-1,488.35	1,564.01	1,508.52	55.49	28.185			
5,800.00	5,518.85	5,809.33	5,518.85	29.40	32.55	-42.89	-301.75	-1,488.35	1,564.01	1,508.36	55.65	28.100			
5,900.00	5,618.85	5,909.33	5,618.85	29.48	32.63	-42.89	-301.75	-1,488.35	1,564.01	1,508.19	55.83	28.015			
6,000.00	5,718.85	6,009.33	5,718.85	29.55	32.71	-42.89	-301.75	-1,488.35	1,564.01	1,508.01	56.00	27.928			
6,100.00	5,818.85	6,109.33	5,818.85	29.63	32.79	-42.89	-301.75	-1,488.35	1,564.01	1,507.84	56.18	27.841			
6,200.00	5,918.85	6,209.33	5,918.85	29.71	32.87	-42.89	-301.75	-1,488.35	1,564.01	1,507.66	56.36	27.753			
6,300.00	6,018.85	6,309.33	6,018.85	29.80	32.96	-42.89	-301.75	-1,488.35	1,564.01	1,507.48	56.54	27.664			
6,400.00	6,118.85	6,409.33	6,118.85	29.88	33.04	-42.89	-301.75	-1,488.35	1,564.01	1,507.29	56.72	27.573			
6,500.00	6,218.85	6,509.33	6,218.85	29.97	33.13	-42.89	-301.75	-1,488.35	1,564.01	1,507.10	56.91	27.482			
6,547.15	6,266.00	6,556.48	6,266.00	30.01	33.17	-42.89	-301.75	-1,488.35	1,564.01	1,507.01	57.00	27.439			

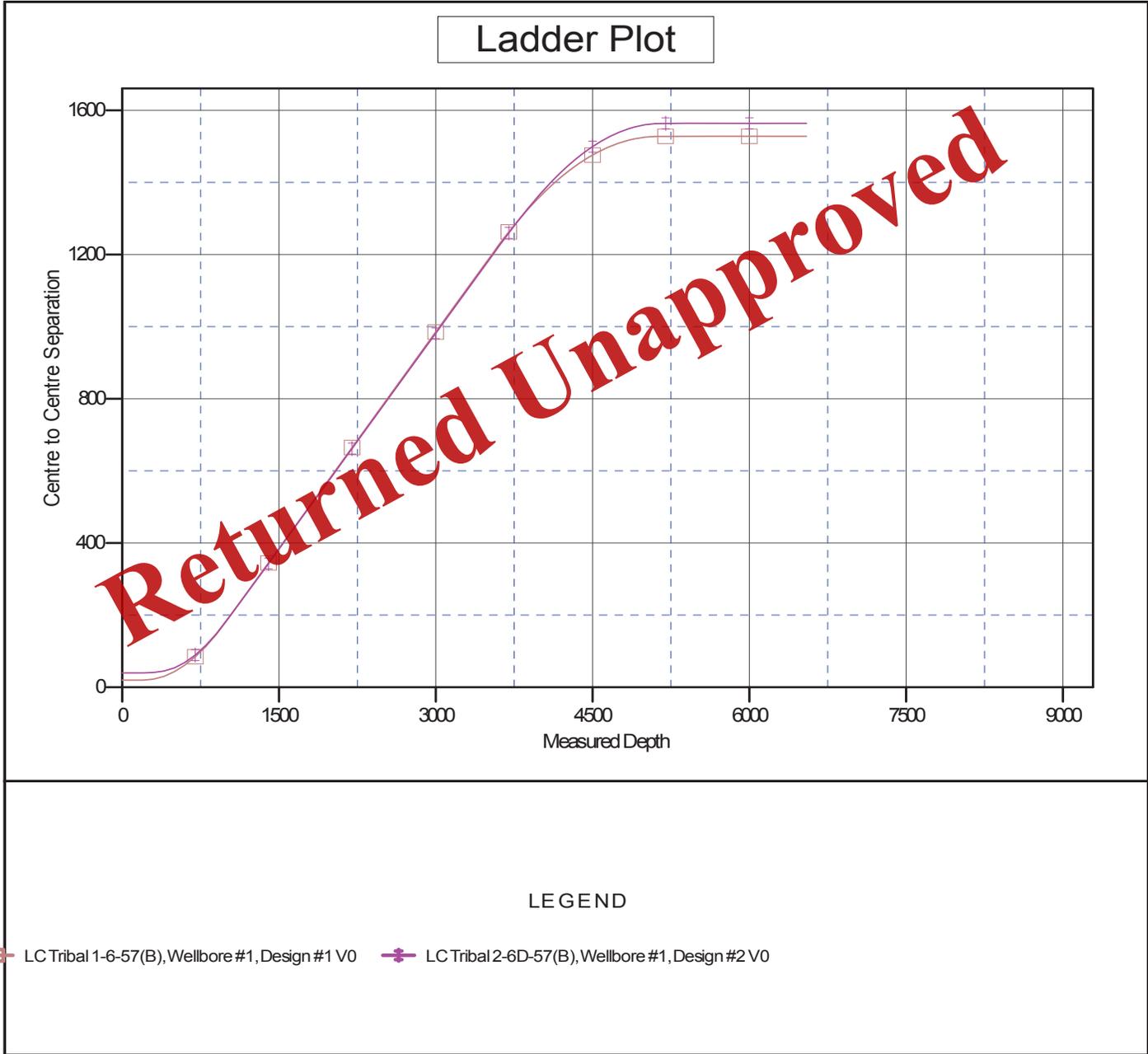
Returned Unapproved



Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well LC Tribal 8-6D-57(B)
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7024.00usft
Reference Site:	Sec.6-T5S-R7W	MD Reference:	WELL @ 7024.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	LC Tribal 8-6D-57(B)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 7024.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 111° 30' 0.000 W

Coordinates are relative to: LC Tribal 8-6D-57(B)
 Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302
 Grid Convergence at Surface is: 0.51°

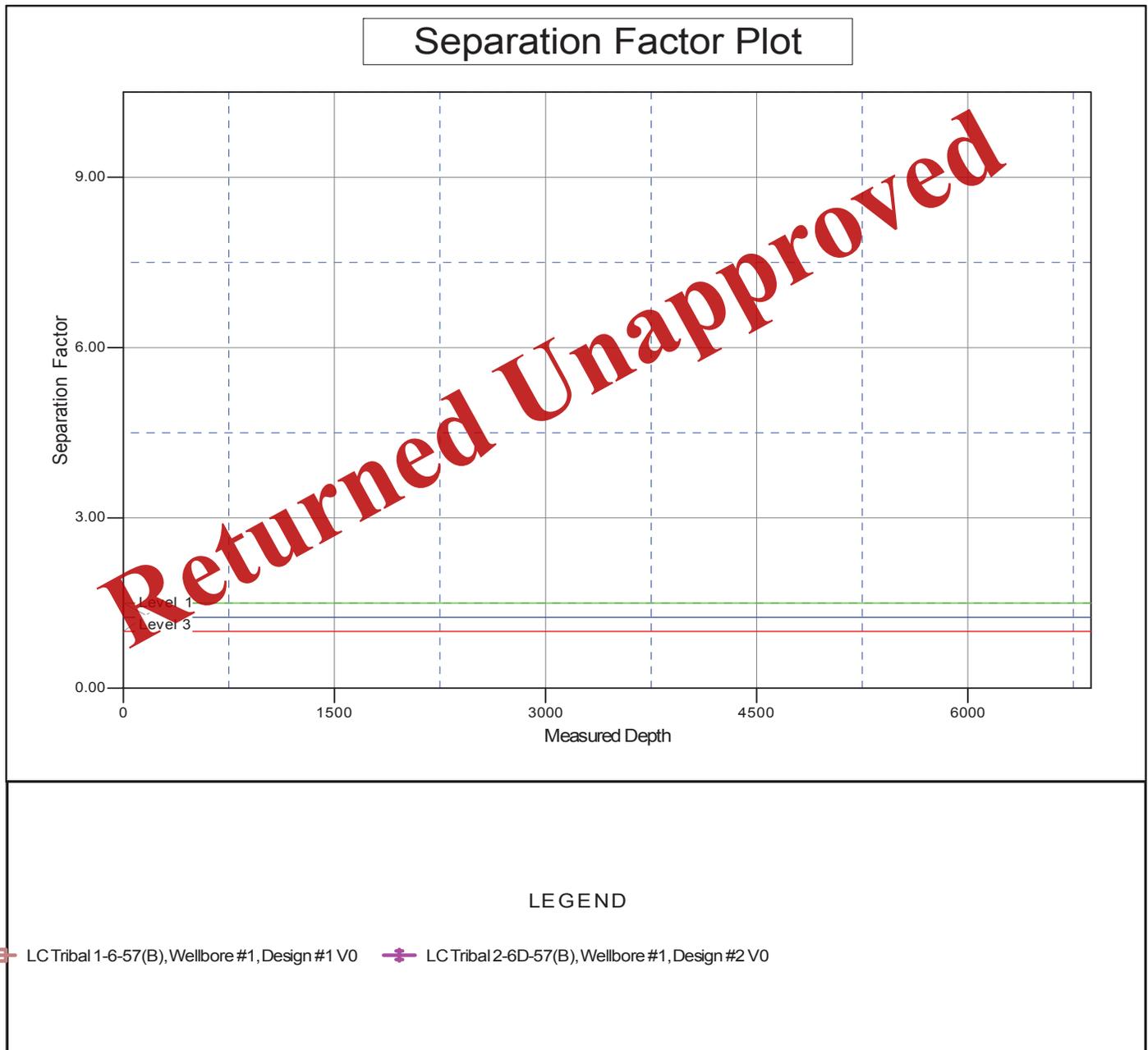




Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well LC Tribal 8-6D-57(B)
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7024.00usft
Reference Site:	Sec.6-T5S-R7W	MD Reference:	WELL @ 7024.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	LC Tribal 8-6D-57(B)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 7024.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 111° 30' 0.000 W

Coordinates are relative to: LC Tribal 8-6D-57(B)
Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302
Grid Convergence at Surface is: 0.51°



SURFACE USE PLAN

CONDITIONS OF APPROVAL

Attachment for Permit to Drill:

Name of Operator: Berry Petroleum Company
Address: 4000 South 4028 West/Rt. 2 Box 7735
Roosevelt, Utah 80466
Well Location: LC Tribal 8-6D-57
Surface: 601' FNL & 407' FEL
Target: 2050' FNL & 820' FEL
NE/4NE/4 of Sec. 6, T5S, R7W.

A Existing Roads

To reach the Berry Petroleum Company well, LC Tribal 8-6D-57, in Section 6-T5S-R7W:

The proposed well site is approximately 22.0 miles southwest of Duchesne, Utah.

Start in Duchesne Utah. Proceed in a westerly direction along US Highway 40 for approximately 8.3 miles to the junction of this road and Strawberry River Road to the south. Turn left and proceed in a southerly, then westerly, then southeasterly, then southerly, then westerly, then southwesterly direction for approximately 8.8 miles to the beginning of the proposed access road. Follow the road flags in a southerly, then southwesterly, then northwesterly, then southwesterly direction for approximately 11,999 feet (2.2 miles). Continue in a southwesterly direction, following the road flags, for approximately 546 feet (0.10 miles). Continue following the road flags in a southwesterly direction for approximately 328 feet (1 mile). Continue in a southwesterly direction, still following the road flags, for approximately 7,724 feet (1.5 miles) to the proposed access road to the east. Follow the road flags in an easterly, then southeasterly direction for approximately 252 feet to the proposed LC Tribal 1-6-57, 2-6D-57 and 8-6D-57 location.

Berry Petroleum Company will improve or maintain existing roads in a condition the same or better than before operations began. Best Management Practices will be considered when improving or maintaining existing roads. In general this would involve the need for some surface material or fill to prevent or repair holes in the road due to heavy truck traffic during the drilling and completion operations. If repairs are made the operator will secure the appropriate material from private sources.

B New or Reconstructed Access Road

See Topographic Map "A and B1 & B2" for the location of the proposed access road. Berry Petroleum Company will construct a new access road across tribal land surface for approximately 25,872 feet (4.9 miles) to access the proposed LC Tribal 1-6-57, 2-6D-57 and 8-6D-57 location.

C Location of Existing Wells

See Topographic Map "C" for the location of existing wells within a 1mile radius.

D Location of Tank Batteries, Production Facilities and Production Gathering and Service Lines

A containment dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks). This dike will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank. The site specific APD will address additional capacity if such is needed due to environmental concerns. The use of topsoil for the construction of dikes will not be allowed. If a Spill Prevention, Control, and Countermeasure (SPCC) Plan is required by the Environmental Protection Agency, the containment dike may be expanded with the Authorized Agency Officer's approval to meet SPCC requirements.

The proposed pipeline will tie in at an existing pipeline. Map "D" illustrating the proposed route is attached. The proposed pipeline will run in the same corridor as the above proposed access road.

All site security guidelines identified in Federal regulation 43 CFR 3126.7, will be adhered to. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease production will have prior written approval from the Authorized Agency Officer.

Gas meter runs will be located approximately 100 feet from the wellhead. Where necessary, the gas line will be anchored down from the wellhead to the meter.

E Location and Type of Water Supply

Water for the drilling and completion will be pumped or trucked from one of the following Berry source wells:

- Water Permit # 43-12400, Sec. 23, T5S, R5W
- Water Permit # 43-12400, Sec. 24, T5S, R5W
- Water Permit # 43-1628, Sec. 12, T5S, R6W (Douglas E. & Yordis Nielsen)
- Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W
- East Duchesne Water, Arcadia Feedlot, Sec. 28, T3S, R3W
- Petroglyph Operating Company 08-04 Waterplant, Sec. 8, T5S, R3W

F Source of Construction Materials

All construction materials for this location site and access road shall be borrow material accumulated during the construction of the location site and access road.

Additional gravel or pit lining material will be obtained from a private source.

The use of materials under Authorized Agency jurisdiction will conform to 43 CFR 3610.2-3.

G Methods of Handling Waste Materials

Drill fluids will be contained in a closed loop system. Cuttings will be contained on site and buried in a pit or used on location and/or access roads, whichever is deemed appropriate by the authorized agency.

After first production, produced wastewater will be trucked to one of the following approved waste water disposal sites, unless used in the operations of the field:

- R.N. Industries, Inc. Sec. 4, T2S, R2W, Bluebell
- MC & MC Disposal Sec. 12, T6S, R19E, Vernal
- LaPoint Recycle & Storage Sec. 12, T5S, R19E, LaPoint
- Water Disposal Inc. Sec. 32, T1S, R1W, Roosevelt

Should operations of the field be prohibited by the Authorized Officer, the wastewater shall be confined to the approved pit or storage tank for a period not to exceed 90 days. The use of such pit is hereby approved as part of this Application for Permit to Drill.

Production fluids will be contained in leak-proof tanks. All production fluids will be disposed of at approved disposal sites. Produced water, oil, and other byproducts will not be applied to roads or well pads for control of dust or weeds. The indiscriminate dumping of produced fluids on roads, well sites, or other areas will not be allowed.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical portable toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location.

All debris and other waste materials not contained in the trash cage will be cleaned up and removed from the location promptly after removal of the completion rig (weather permitting).

Any open pits will be fenced during the operations. The fencing will be maintained with best efforts until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of wells. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of wells within these areas.

H Ancillary Facilities

There are no ancillary facilities planned for at this time and none are foreseen in the future.

I Well site Layout

The attached Location Layout diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpile(s)

J Plans for Restoration of the Surface

Interim

The dirt contractor will be provided with approved copies of the Surface Use Plan prior to construction activities.

Upon well completion, within a reasonable time, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions may include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and the re-establishment of vegetation as specified.

All disturbed areas will be re-contoured to the approximate natural contours.

Any drainage rerouted during the construction activities shall be restored to its original line of flow or as near as possible.

Final

Prior to the construction of the location, the top 12 inches of soil material (if present) will be stripped and stockpiled. Placement of the topsoil is noted on the location plat attached. Topsoil shall be stockpiled separately from subsoil materials. Topsoil salvaged from the reserve pit shall be stockpiled separately near the reserve pit.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas, including the old access road will be scarified and left with a rough surface.

The Authorized Agency Officer shall be contacted for the required seed mixture. Seed will be broadcast and the amount of seed mixture per acre will be doubled. The seeded area will then be "walked" with a dozer to assure coverage of the seeds. The seed mixture will reflect the recommendation from the Archeology study done.

At final abandonment, all casing shall be cut off at the base of the cellar or 3 feet below final restored ground level, whichever is deeper, and cap the casing with a metal plate a minimum of 0.25 inches thick. The cap will be welded in place and the well location and identity will be permanently inscribed on the cap. The cap also will be constructed with a weep hole.

K Well Surface & Access Ownership:

Ute Indian Tribe – Under Management of the Energy and Minerals Department, PO Box 190, Fort Duchesne, Utah, 84026; 435-725-4950

L Other information

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

Berry will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites or other applicable facilities. A list of noxious weeds may be obtained from the Authorized Agency or the appropriate County Extension Office.

Drilling rigs and/or equipment used during drilling operations on this location will not be stacked or stored on administered lands after the conclusion of drilling operations or at any other time without authorization by the Authorized Agency Officer. If authorization is obtained, such storage is only a temporary measure.

Travel is restricted to approved routes only.

Outlaw Engineering Inc. has conducted a Class III archaeological survey. A copy of this report has been submitted under separate cover by Outlaw Engineering Inc. to the appropriate agencies.

All personnel will refrain from collecting artifacts and from disturbing any significant cultural resources in the area. The operator is responsible for informing all persons in the area who are associated with this project that they may be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in the archaeological report, and to the existing roadways and/or evaluated access routes. If historic or archaeological materials are uncovered during construction, Berry Petroleum Company is to immediately stop work that might further disturb such materials and contact the Authorized Agency Officer.

Within five working days, the Authorized Agency Officer will inform the operator as to:

- Whether the materials appear eligible for the National Historic Register of Historic Places;
- The mitigation measures Berry will likely have to undertake before the site can be used (assuming in-situ preservation is not necessary); and a time frame for the Authorized Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that the mitigation measures are appropriate.

If Berry wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Authorized Agency Officer and/or the surface owner will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise the operator will be responsible for mitigation costs. The Authorized Agency Officer and/or the surface owner will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Agency Officer that required mitigation has been completed, Berry will then be allowed to resume construction.

All Surface Use Conditions of Approval associated with the Landowner Surface Use Agreement and Environmental Analysis Mitigation Stipulations will be adhered to.

All well site locations will have appropriate signs indicating the name of the operator, the lease serial number, the well name and number, the survey description of the well (footages or the quarter/quarter section, the section, township, and range).

Returned Unapproved

BERRY PETROLEUM COMPANY

LOCATION LAYOUT FOR

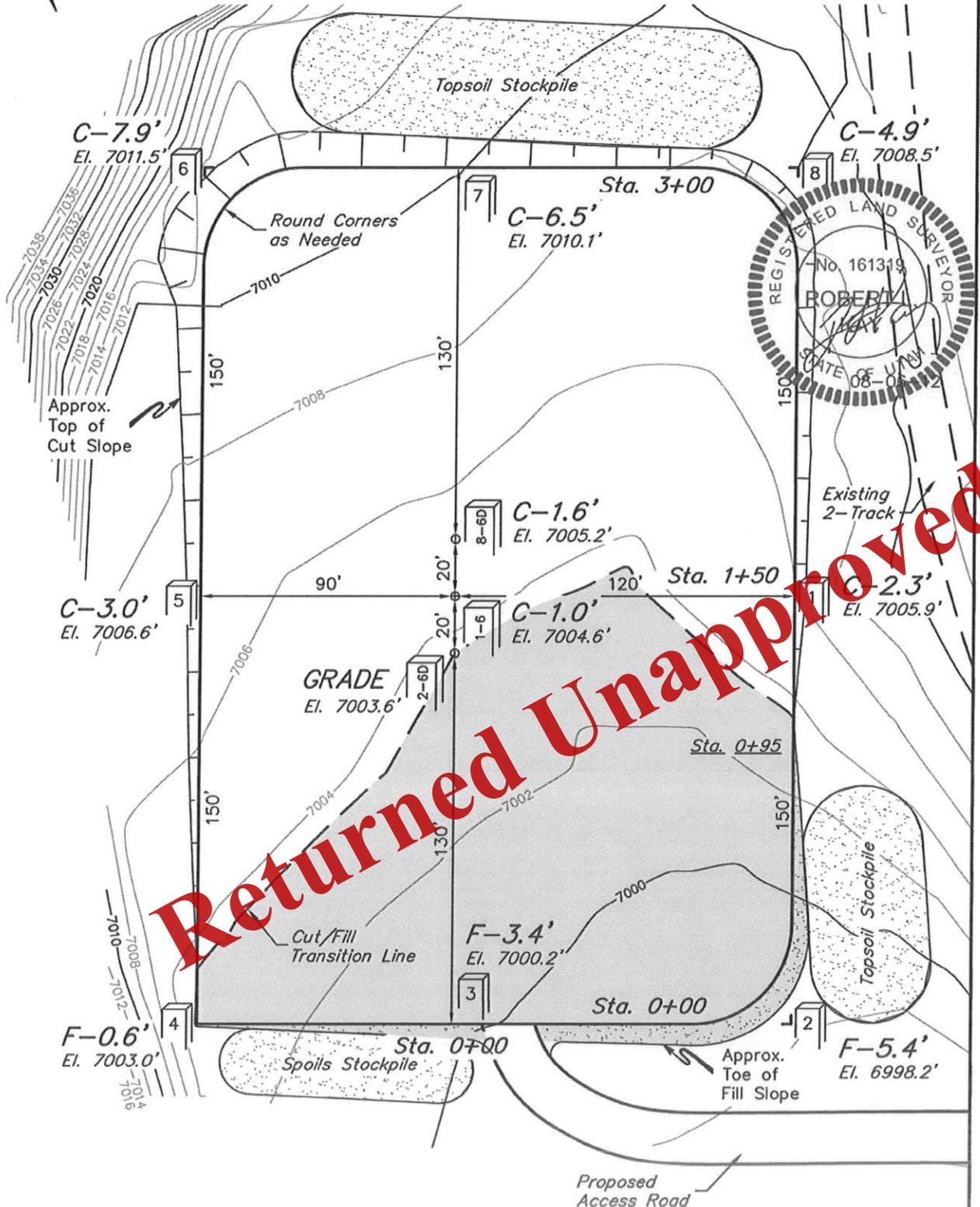
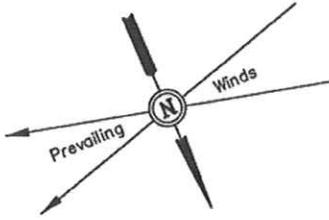
LC TRIBAL #2-6D-57, #1-6-57 & #8-6D-57
SECTION 6, T5S, R7W, U.S.B.&M.
NE 1/4 NE 1/4

FIGURE #1

SCALE: 1" = 50'

DATE: 08-02-12

DRAWN BY: K.O.



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Elev. Ungraded Ground At #1-6 Loc. Stake = 7004.6'
FINISHED GRADE ELEV. AT #1-6 LOC. STAKE = 7003.6'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

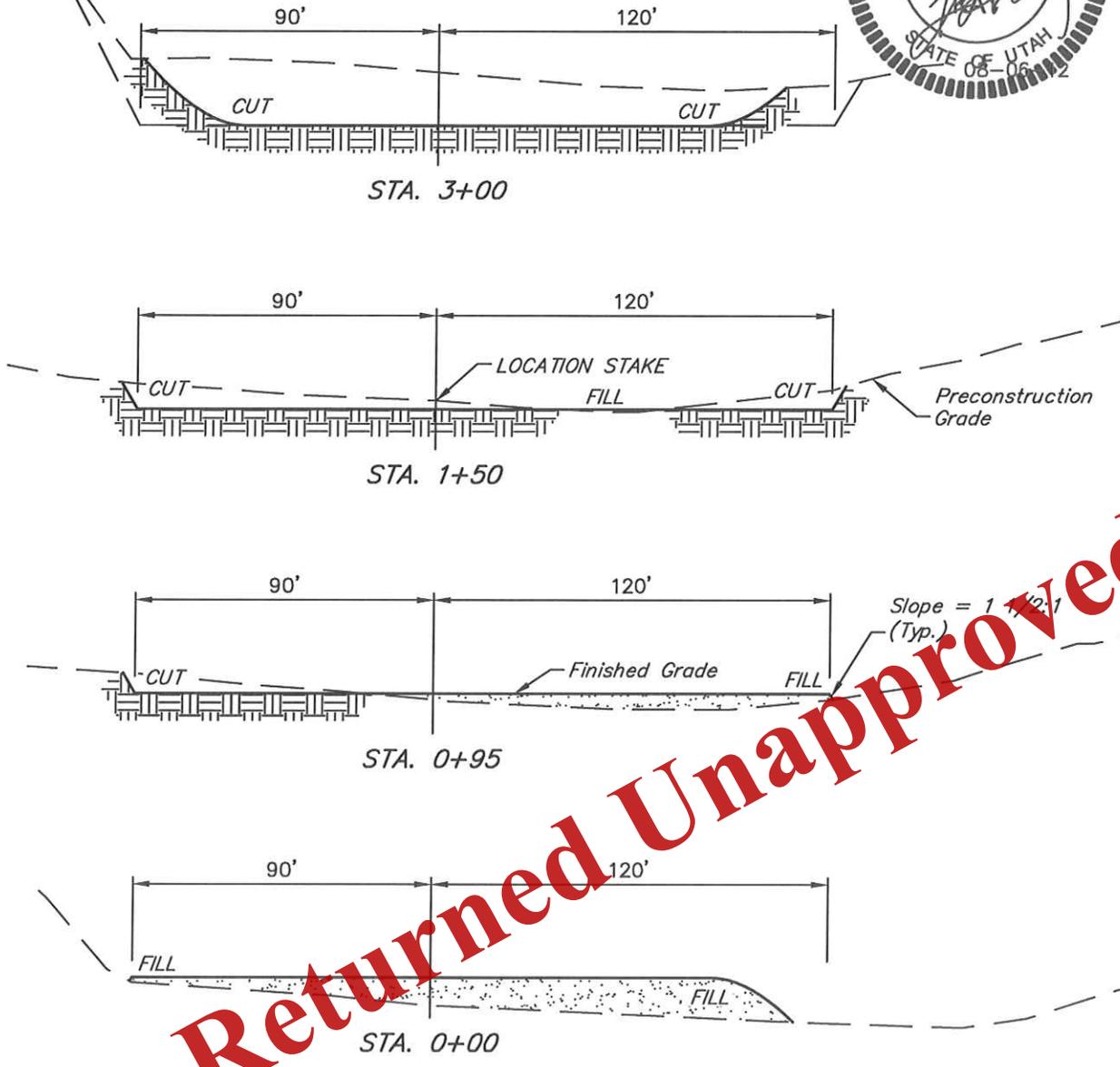
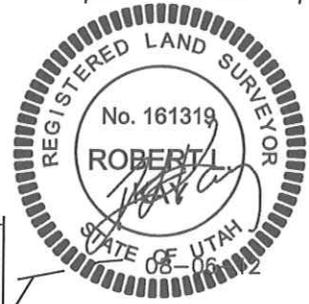
Received: October 08, 2012

BERRY PETROLEUM COMPANY

FIGURE #2

TYPICAL CROSS SECTIONS FOR
 LC TRIBAL #2-6D-57, #1-6-57 & #8-6D-57
 SECTION 6, T5S, R7W, U.S.B.&M.
 NE 1/4 NE 1/4

1" = 20'
 X-Section Scale
 1" = 50'
 DATE: 08-02-12
 DRAWN BY: K.O.



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NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 2.089 ACRES
 ACCESS ROAD DISTURBANCE = ± 0.152 ACRES
 PIPELINE DISTURBANCE = ± 1.200 ACRES
 TOTAL = ± 3.441 ACRES

*** NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping = 2,530 Cu. Yds.
 Remaining Location = 3,330 Cu. Yds.
TOTAL CUT = 5,860 CU. YDS.
FILL = 2,990 CU. YDS.

EXCESS MATERIAL = 2,870 Cu. Yds.
 Topsoil = 2,530 Cu. Yds.
 EXCESS UNBALANCE = 340 Cu. Yds.
 (After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING
 85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

BERRY PETROLEUM COMPANY

TYPICAL RIG LAYOUT FOR

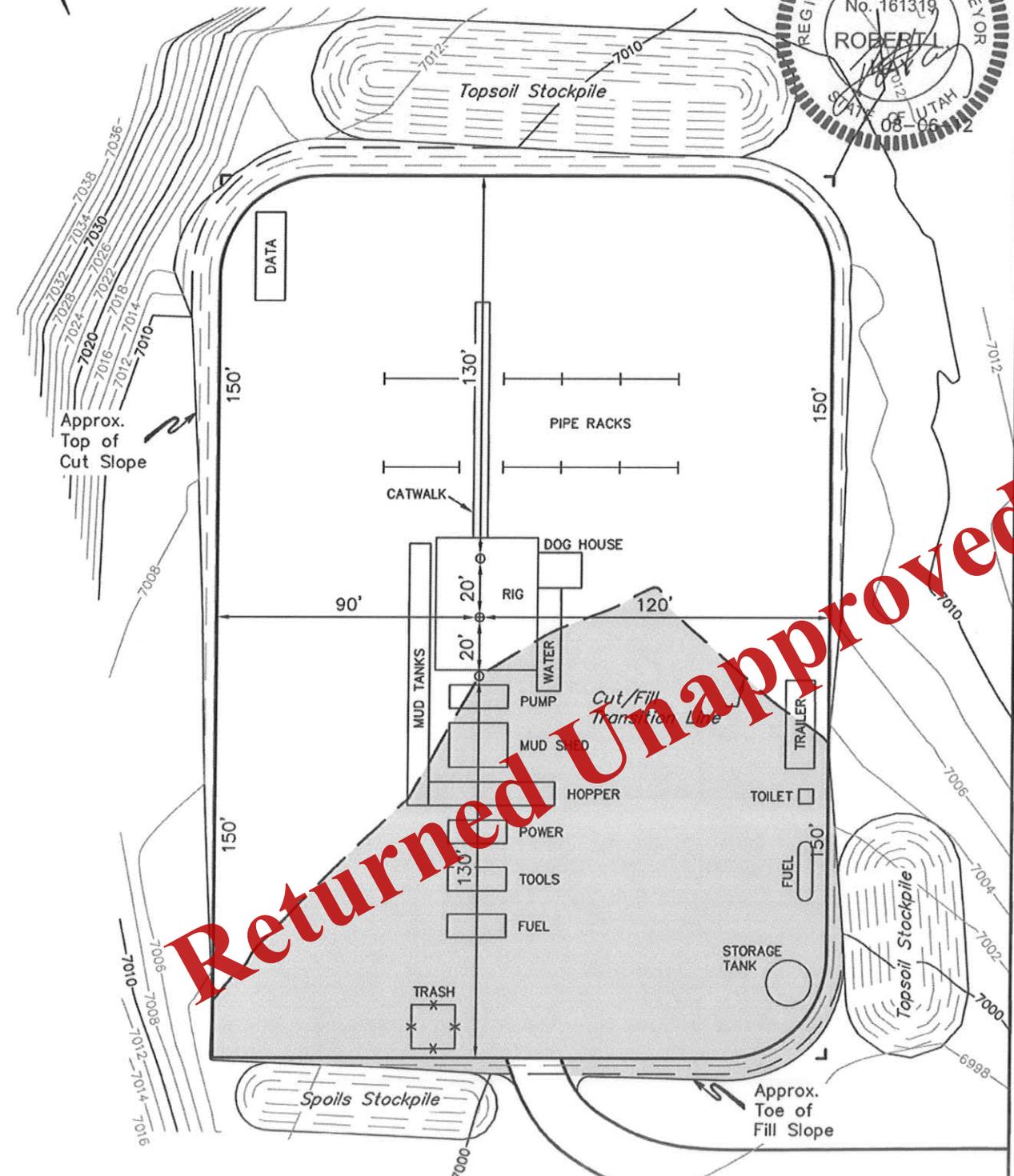
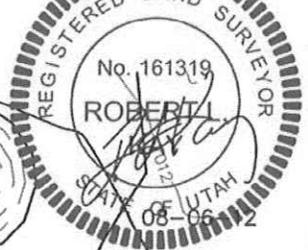
LC TRIBAL #2-6D-57, #1-6-57 & #8-6D-57
SECTION 6, T5S, R7W, U.S.B.&M.
NE 1/4 NE 1/4

FIGURE #3

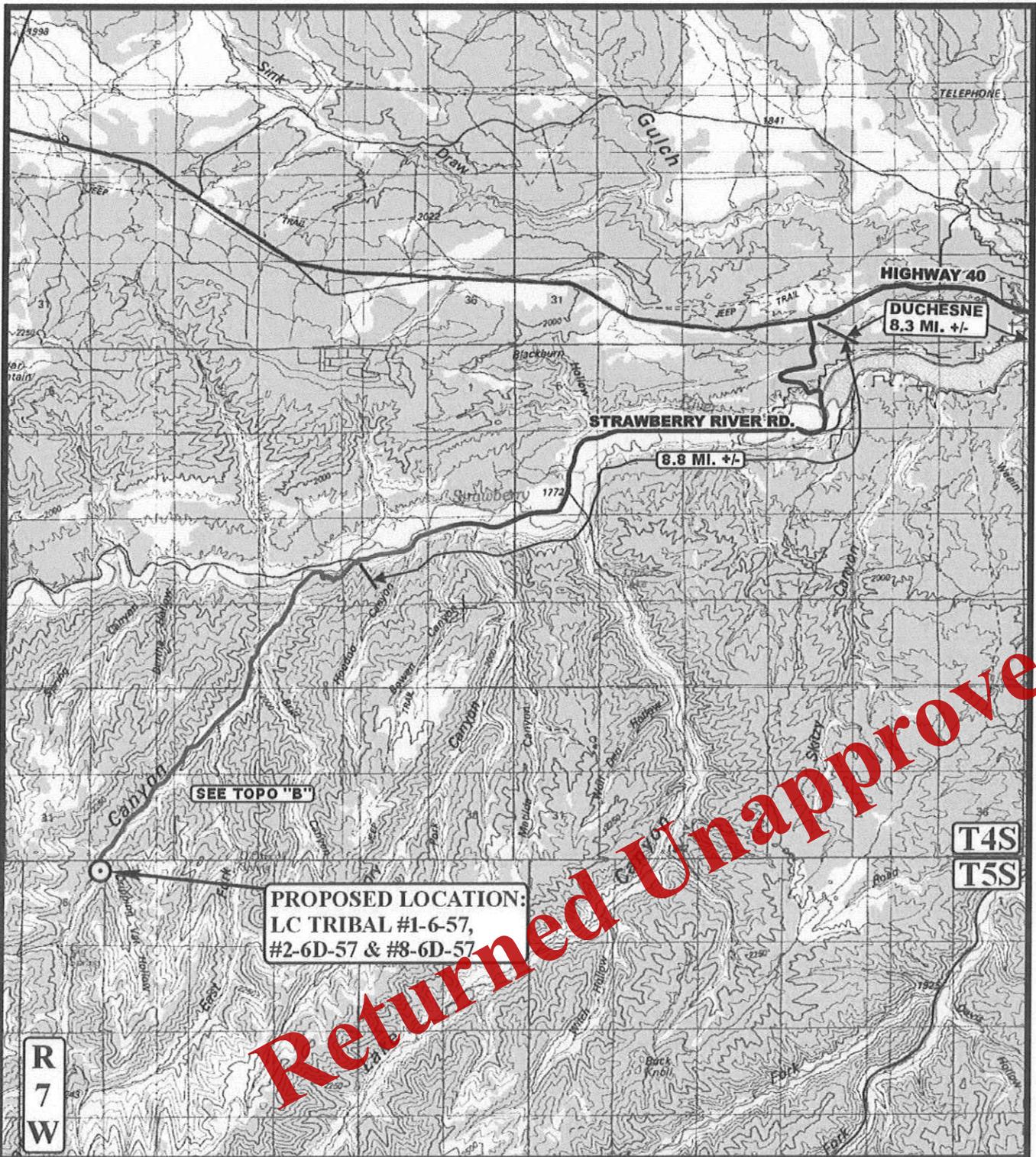
SCALE: 1" = 50'

DATE: 08-02-12

DRAWN BY: [Signature]



Returned Unapproved



Returned Unapproved

PROPOSED LOCATION:
 LC TRIBAL #1-6-57,
 #2-6D-57 & #8-6D-57

SEE TOPO "B"

R
7
W

T4S
T5S

LEGEND:

⊙ PROPOSED LOCATION



BERRY PETROLEUM COMPANY

LC TRIBAL #1-6-57, #2-6D-57 & #8-6D-57
 SECTION 6, T5S, R7W, U.S.B.&M.
 NE 1/4 NE 1/4

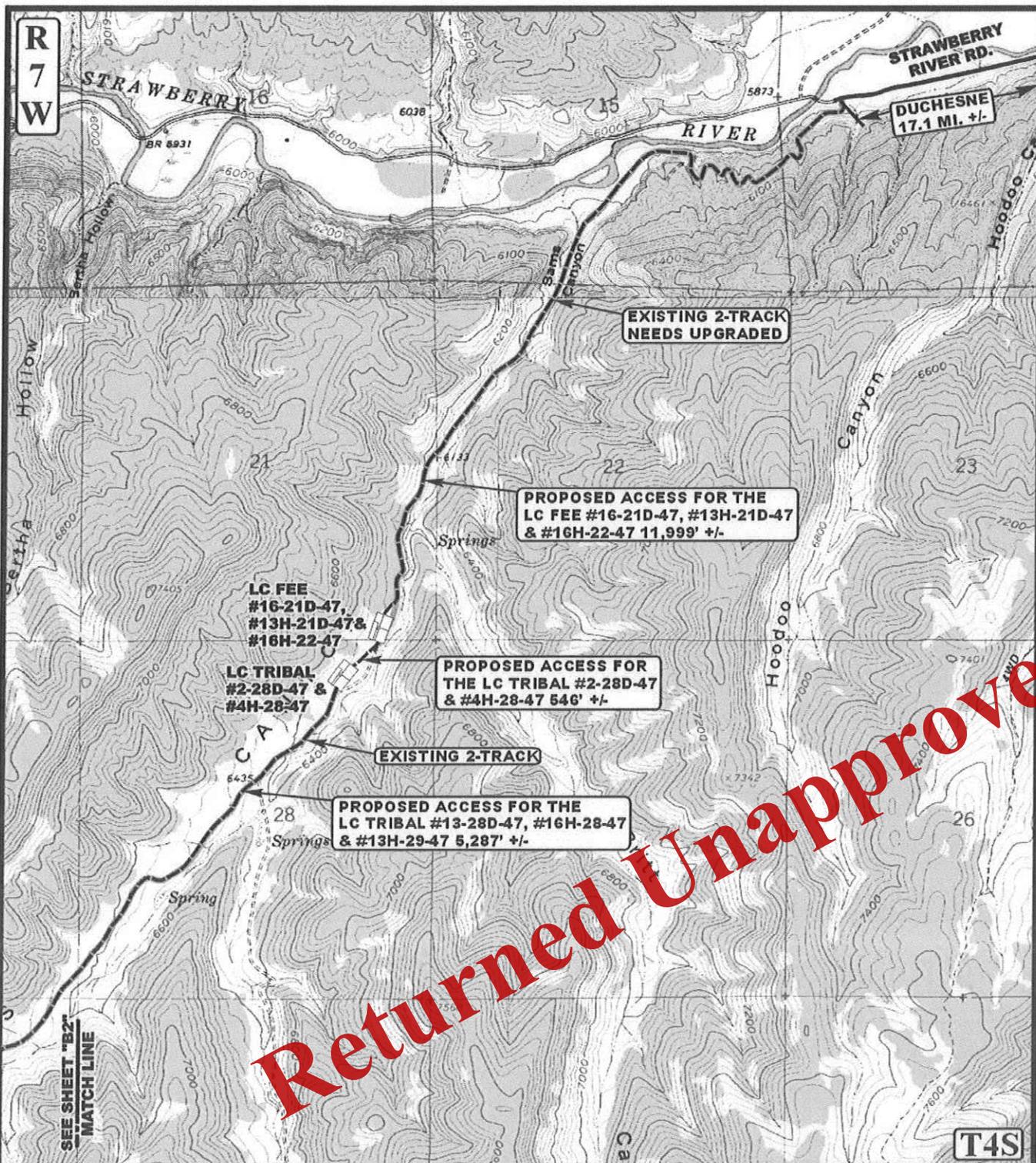


Utah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD
 MAP
 SCALE: 1:100,000 | DRAWN BY: C.J. | REVISED: 00-00-00

08 02 12
 MONTH DAY YEAR





**R
7
W**

T4S

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LEGEND:

- PROPOSED ACCESS ROAD
- ===== EXISTING 2-TRACK NEEDS UPGRADED



BERRY PETROLEUM COMPANY

LC TRIBAL #1-6-57, #2-6D-57 & #8-6D-57
SECTION 6, T5S, R7W, U.S.B.&M.
NE 1/4 NE 1/4



Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD
M A P
SCALE: 1" = 2000' DRAWN BY: C.I. REVISED: 00-00-00

08	02	12
MONTH	DAY	YEAR

B1
TOPO

R
7
W

MATCH LINE
SEE SHEET "B1"

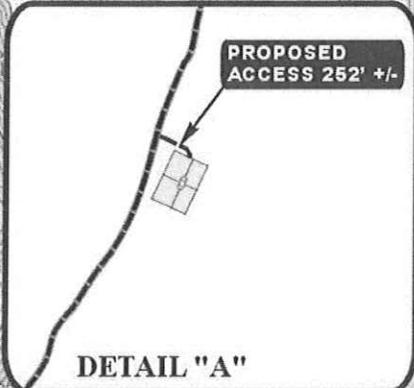
PROPOSED ACCESS FOR THE
LC TRIBAL #13-28D-47,
#16H-28-47 & #13H-29-47 5,287' +/-

LC TRIBAL
#13-28D-47,
#16H-28-47 &
#13H-29-47

LC TRIBAL
#1-32D-47 &
#4H-32-47

PROPOSED ACCESS FOR
THE LC TRIBAL #1-32D-47
& #4H-32-47 1,693' +/-

EXISTING 2-TRACK
NEEDS UPGRADED



LC TRIBAL
#13-32D-47 &
#16H-32-47

LC TRIBAL
#16-31D-47 &
#13H-31-47

PROPOSED ACCESS FOR
THE LC TRIBAL #13-32D-47
& #16H-32-47 4,804' +/-

PROPOSED ACCESS FOR
THE LC TRIBAL #16-31D-47
& #13H-31-47 2,200' +/-

SEE DETAIL "A"
PROPOSED LOCATION:
LC TRIBAL #1-6-57,
#2-6D-57 & #8-6D-57

T4S
T5S

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LEGEND:

- PROPOSED ACCESS ROAD
- ===== EXISTING 2-TRACK NEEDS UPGRADED



BERRY PETROLEUM COMPANY

LC TRIBAL #1-6-57, #2-6D-57 & #8-6D-57
SECTION 6, T5S, R7W, U.S.B.&M.
NE 1/4 NE 1/4

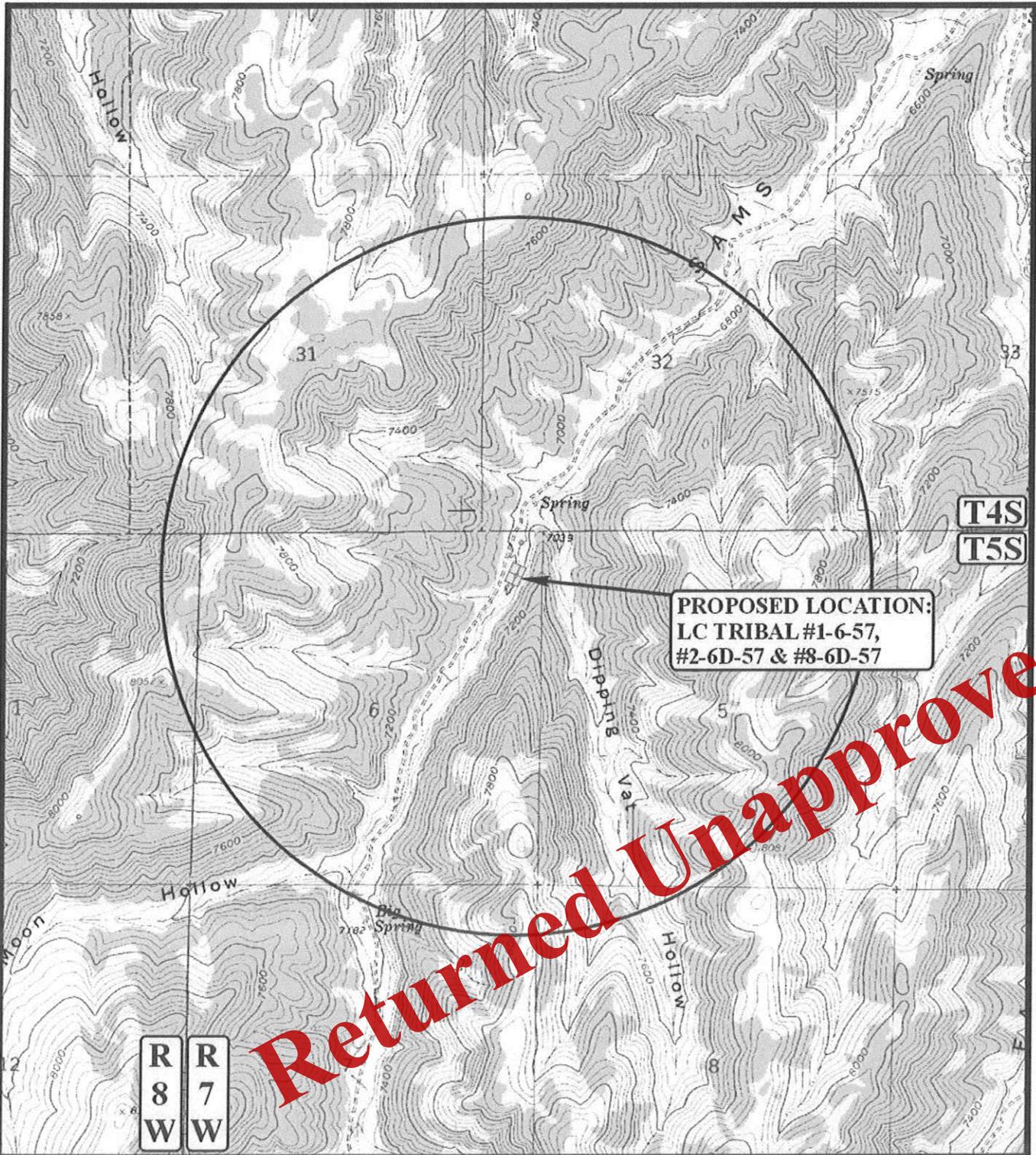


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

ACCESS ROAD
M A P
SCALE: 1" = 2000' DRAWN BY: C.I. REVISIED: 00-00-00

08 02 12
MONTH DAY YEAR

B2
TOPO



**PROPOSED LOCATION:
LC TRIBAL #1-6-57,
#2-6D-57 & #8-6D-57**

R 8 W
R 7 W

T4S
T5S

LEGEND:

- ⊘ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



BERRY PETROLEUM COMPANY

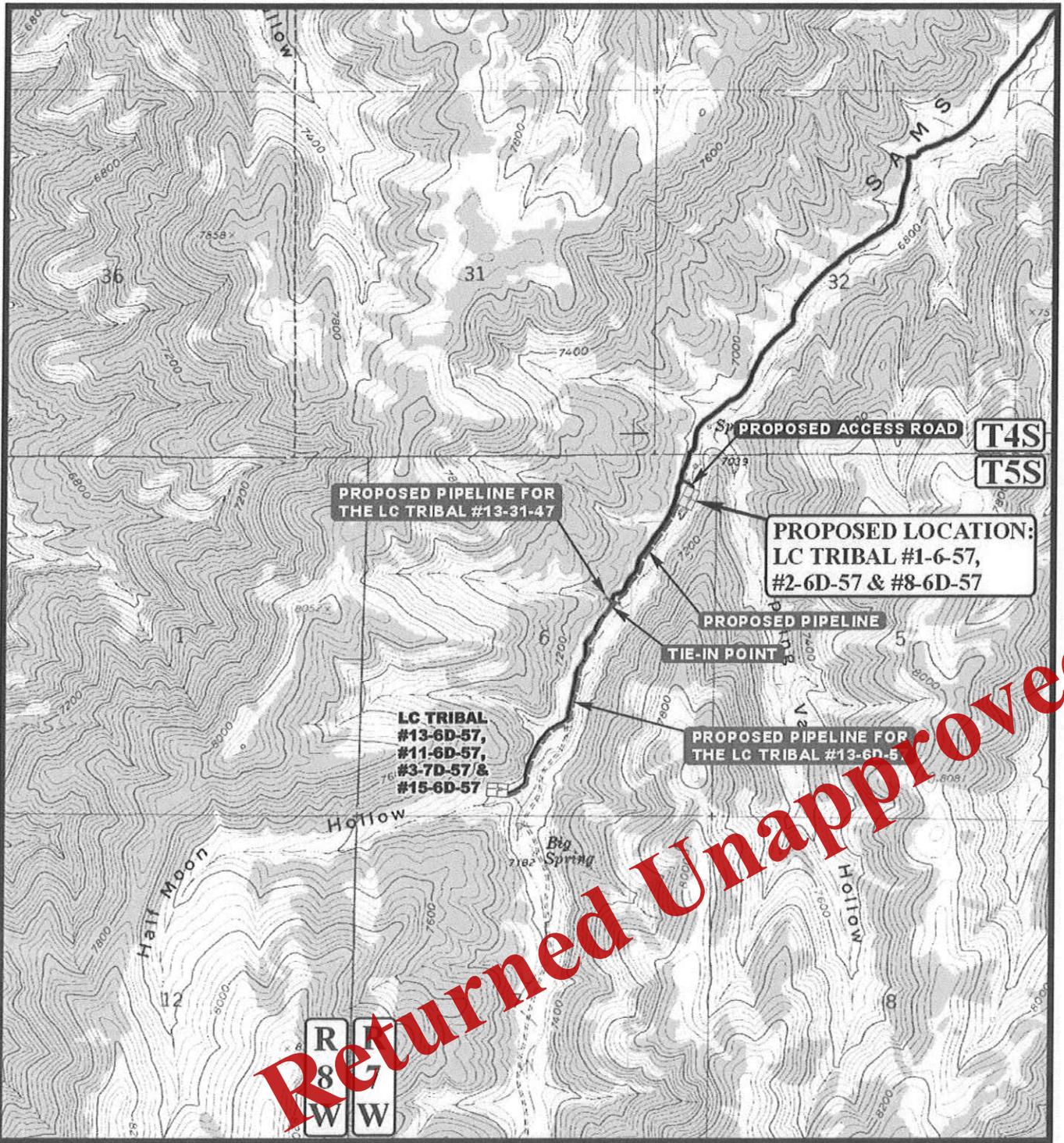
**LC TRIBAL #1-6-57, #2-6D-57 & #8-6D-57
SECTION 6, T5S, R7W, U.S.B.&M.
NE 1/4 NE 1/4**



Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC 08 02 12
MAP MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: C.I. REVISED: 00-00-00





PROPOSED PIPELINE FOR THE LC TRIBAL #13-31-47

PROPOSED ACCESS ROAD

T4S

T5S

PROPOSED LOCATION:
LC TRIBAL #1-6-57,
#2-6D-57 & #8-6D-57

PROPOSED PIPELINE

TIE-IN POINT

PROPOSED PIPELINE FOR THE LC TRIBAL #13-6D-57

LC TRIBAL
#13-6D-57,
#11-6D-57,
#3-7D-57 &
#15-6D-57

Returned Unapproved

APPROXIMATE TOTAL PIPELINE DISTANCE = 1,745' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)



BERRY PETROLEUM COMPANY

LC TRIBAL #1-6-57, #2-6D-57 & #8-6D-57
SECTION 6, T5S, R7W, U.S.B.&M.
NE 1/4 NE 1/4



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
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TOPOGRAPHIC MAP
08 02 12
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: C.J. REVISED: 00-00-00



BERRY PETROLEUM COMPANY
LC TRIBAL #1-6-57, #2-6D-57 & #8-6D-57
LOCATED IN DUCHESNE COUNTY, UTAH
SECTION 6, T5S, R7W, U.S.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



UELS Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

LOCATION PHOTOS	08	02	12	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: B.H.	DRAWN BY: C.I.		REVISED: 00-00-00	

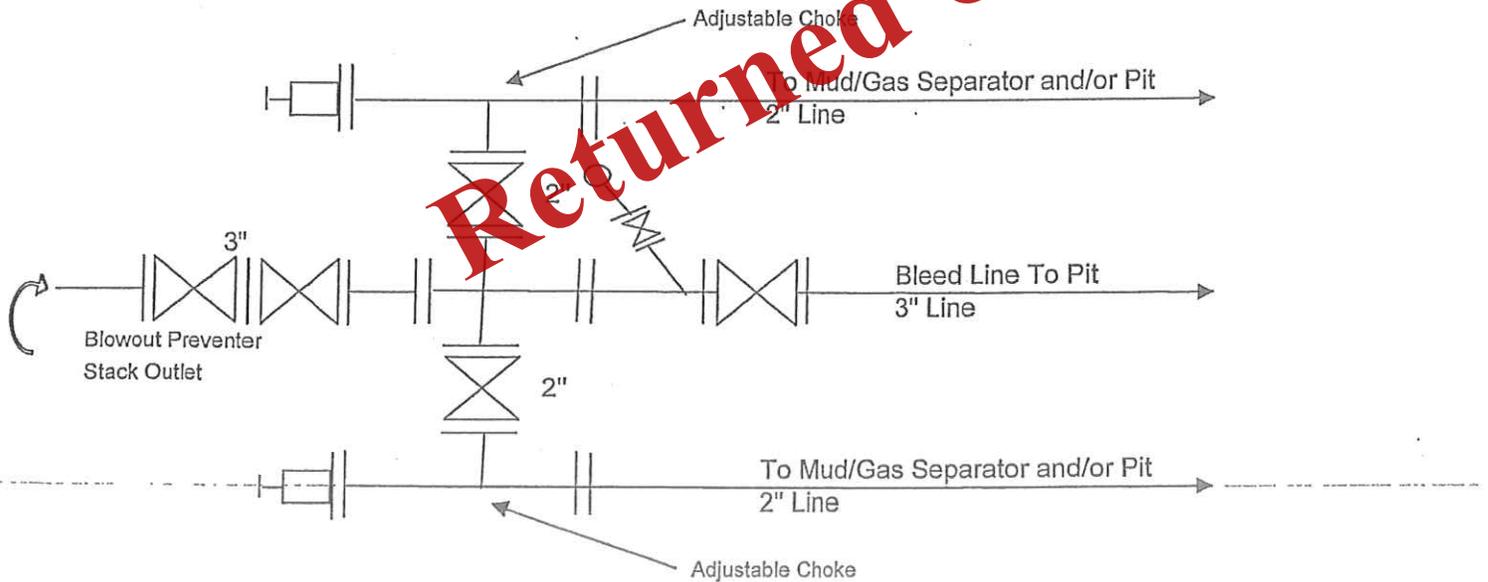
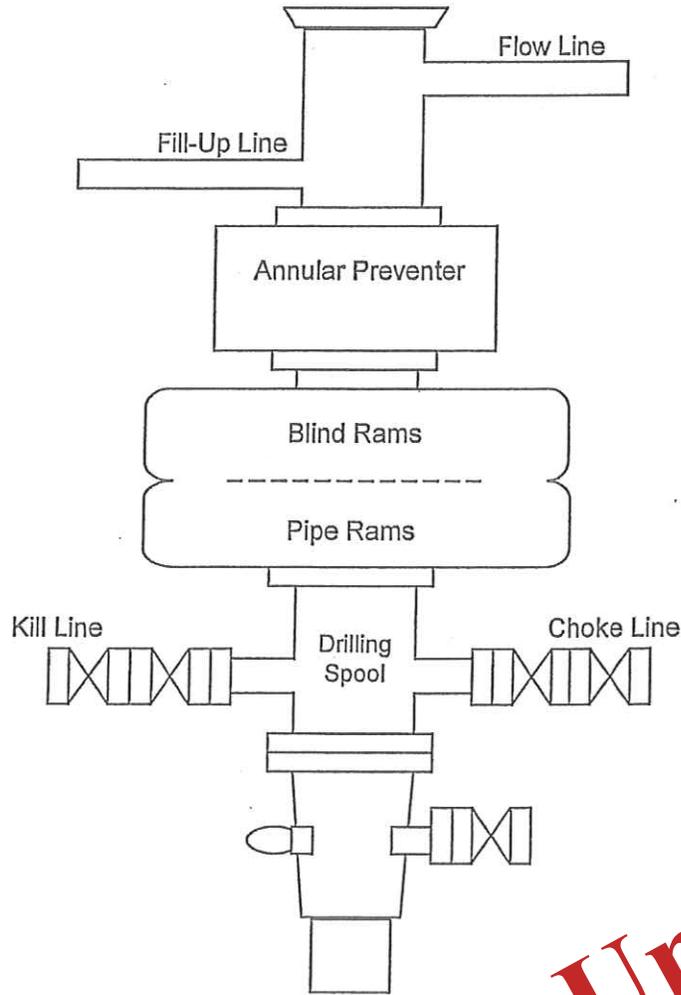
BERRY PETROLEUM
LC TRIBAL #1-6-57, #2-6D-57 & #8-6D-57
SECTION 6, T5S, R7W, U.S.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM DUCHESNE, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 8.3 MILES TO THE JUNCTION OF THIS ROAD AND STRAWBERRY RIVER ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN WESTERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY, THEN WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 8.8 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE LC FEE #16-21D-47, #13H-21D-47 & #16H-22-47 TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY, THEN SOUTHWESTERLY, THEN NORTHWESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 11,999' TO THE PROPOSED LOCATION AND THE PROPOSED ACCESS ROAD FOR THE LC TRIBAL #2-28D-47 & #4H-28-47 TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 546' TO THE PROPOSED LOCATION AND THE PROPOSED ACCESS FOR THE LC TRIBAL #13-28D-47, #16H-28-47 & #13H-29-47 TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 5,287' TO THE PROPOSED LOCATION AND THE BEGINNING OF THE PROPOSED ACCESS ROAD FOR THE LC TRIBAL #1-32D-47 & #4H-32-47 TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1,693' TO THE PROPOSED LOCATION AND THE BEGINNING OF THE PROPOSED ACCESS ROAD FOR THE LC TRIBAL #13-32D-47 & #16H-32-47 TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 4,804' TO THE PROPOSED LOCATION AND THE BEGINNING OF THE PROPOSED ACCESS FOR THE LC TRIBAL #16-31D-47 & #13H-31-47 TO THE SOUTHWEST; PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1,227' TO THE PROPOSED ACCESS ROAD TO THE EAST; FOLLOW ROAD FLAGS IN A EASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 252' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 22.0 MILES.

Returned Unapproved

SCHEMATIC DIAGRAM OF 3,000 PSI BOP STACK



Returned Unapproved

AFFIDAVIT OF NOTICE

I, Krista Mecham, the affiant herein, being of lawful age and duly sworn upon his oath deposes and states to the best of my knowledge as follows:

Krista Mecham is a Permitting & Regulatory Tech. for **Berry Petroleum Company**, a Delaware Corporation, with headquarters located at 1999 Broadway, Suite 3700, Denver, Colorado 80202, and is duly authorized to make this affidavit on behalf of said corporation. This Affidavit is made in accordance with Utah's Oil, Gas and Mining regulation R649-3-22.

Berry Petroleum Company has submitted notices to commingle production from the Wasatch and Green River formations in the following wells:

LC Tribal 1-6-57
LC Tribal 2-6D-57
LC Tribal 8-6D-57

Per the terms of the Ute Tribal Lake Canyon Exploration and Development Agreement BIA Lease # 14-20-H62-5500, Berry Petroleum Company is the owner of contiguous oil and gas leases or drilling units or has the right to the minerals overlying the pool for the aforementioned wells. Notice of intent to commingle production is hereby waived.

This instrument is executed this 30th day of September, 2012.

Berry Petroleum Company

By: Krista Mecham

Returned Unapproved

Received: October 08, 2012

- ★ Well of Interest
- Berry Ute Tribal Leases
-  Berry Fee Leases
-  Berry Fee Leases
-  Drilling Units to Commingle

02-06D-57 ★

01-06-57 ★

08-06D-57 ★

6

Returned Unapproved

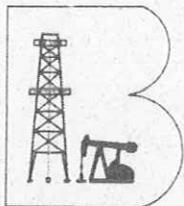
BERRY PETROLEUM COMPANY

Commingle Plat

Wells LC Tribal 1-6-57, 2-6D-57
& 8-6D-57



September 25, 2012



Berry Petroleum Company

Brundage Canyon Field

4000 South 4028 West
Route 2 Box 7735
Roosevelt, UT 84066

Ph. (435) 722-1325
Fax: (435) 722-1321
www.bry.com

October 5, 2012

Ms. Diana Whitney
State of Utah
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84115-5801

Re: Directional Drilling R649-3-11
LC TRIBAL 8-6D-57

601' FNL & 407' FEL (NENE – SHL)
2050' FNL & 820' FEL (SENE – BHL)

Section 6, T5S-R7W
Duchesne, County, Utah

Dear Ms. Whitney:

Pursuant to the filing of Berry Petroleum's Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The LC TRIBAL 8-6D-57 well is to be located within the Lake Canyon Field Area.
- Berry is locating the well at the surface location and directionally drilling from this location to minimize surface disturbance and Berry will be able to utilize the existing road and pipelines in the area.
- Furthermore, Berry hereby certifies that it is the sole working interest owner with 460 feet of the entire directional well bore and the remainder of the Ute Tribal section.

Therefore, based on the above stated information Berry Petroleum Company requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Krista Mecham

Krista Mecham
Sr. Regulatory & Permitting Technician

SELF-CERTIFICATION STATEMENT

The following self-certification statement is provided per federal requirements dated May 7, 2007.

Please be advised that Berry Petroleum Company is considered to be the operator of the following well.

LC Tribal 8-6D-57
Section 6, T5S, R7W, U.S.B. & M.
Surface: 601' FNL & 407' FEL (NE/4NE/4)
BHL: 2050' FNL & 820' FEL (SE/4NE/4)
Duchesne, County, Utah

Berry Petroleum Company is responsible under the terms of the lease for the operations conducted upon the lease lands.

Operator's Representative and Certification

A) Representative
NAME: Krista M. Mecham
ADDRESS: Berry Petroleum Company
4000 South 4028 West
Route 2, Box 7735
Roosevelt, Utah 84066
PHONE: 435-722-1325

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations and onshore oil and gas orders. Berry Petroleum Company is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The drilling permit will be valid for a period of two years from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

B) Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge and belief, true and correct; and that the work associated with the operations proposed herein will be performed by Berry Petroleum Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

10/8/12

DATE

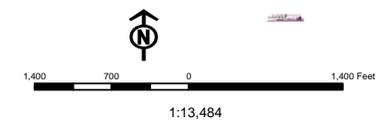
Krista Mecham

Krista M. Mecham
Sr. Regulatory & Permitting Tech.

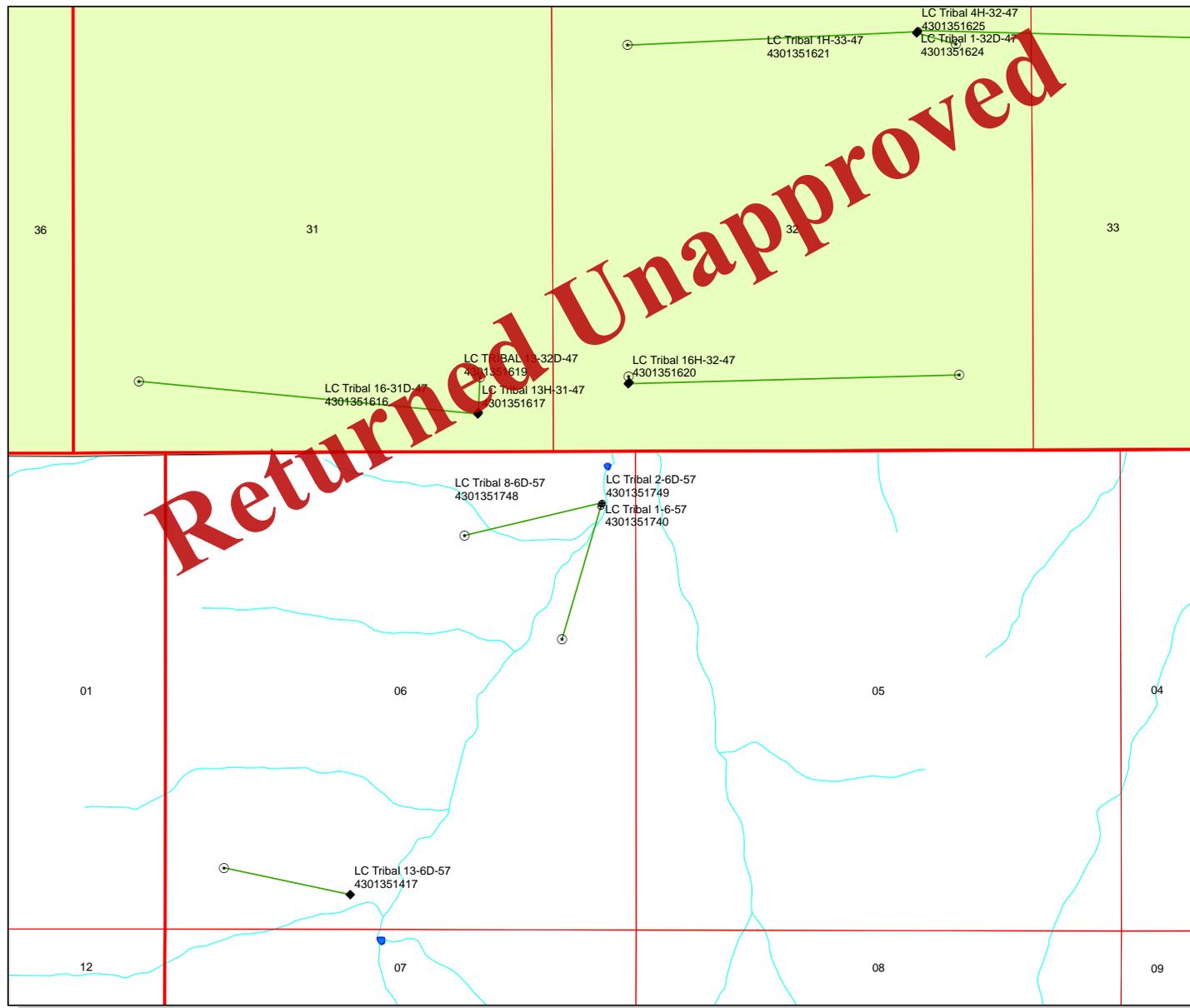
API Number: 4301351748
Well Name: LC Tribal 8-6D-57
Township T05.0S Range R07.0W Section 06
Meridian: UBM
Operator: BERRY PETROLEUM COMPANY

Map Prepared:
 Map Produced by Diana Mason

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



Returned Unapproved





GARY R. HERBERT
Governor

GREGORY S. BELL
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

October 10, 2012

BERRY PETROLEUM COMPANY
4000 South 4028 West Rt 2 Box
7735
Roosevelt, UT 84066

Re: Application for Permit to Drill - DUCHESNE County, Utah

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the LC Tribal 8-6D-57 well, API 43013517480000 that was submitted October 08, 2012 is being returned unapproved. If you plan on drilling this well in the future, you must first submit a new application.

Should you have any questions regarding this matter, please call me at (801) 538-5312.

Sincerely,

Diana Mason
Environmental Scientist

Enclosure

cc: Bureau of Land Management, Vernal, Utah

