

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 Deep Creek 27-5A-4-2
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 UNDESIGNATED
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO		5. UNIT or COMMUNITIZATION AGREEMENT NAME
6. NAME OF OPERATOR FINLEY RESOURCES INC		7. OPERATOR PHONE 817 231-8735
8. ADDRESS OF OPERATOR PO Box 2200, Fort Worth, TX, 76113		9. OPERATOR E-MAIL awilkerson@finleyresources.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') Deep Creek Investments LLC		14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-823-3231
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 2400 Sunnyside Avenue, Salt Lake City, UT 84108		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	1923 FNL 1145 FWL	SWNW	27	4.0 S	2.0 E	U
Top of Uppermost Producing Zone	1923 FNL 1145 FWL	SWNW	27	4.0 S	2.0 E	U
At Total Depth	1923 FNL 1145 FWL	SWNW	27	4.0 S	2.0 E	U

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 1145	23. NUMBER OF ACRES IN DRILLING UNIT 40
27. ELEVATION - GROUND LEVEL 4929	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completion) 660	26. PROPOSED DEPTH MD: 8500 TVD: 8500
	28. BOND NUMBER RLB0011264	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-11500

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	17.5	13.375	0 - 60	48.0	H-40 ST&C	0.0	Class G	41	1.17	15.8
SURF	12.25	8.625	0 - 10.0	32.0	J-55 ST&C	8.6	Premium Lite High Strength	164	3.53	11.0
							Class G	212	1.17	15.8
PROD	7.875	5.5	0 - 8500	15.5	J-55 LT&C	9.2	50/50 Poz	1327	1.24	12.8

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 Don Hamilton	TITLE Permitting Agent (Star Point Enterprises, Inc.)	PHONE 435 650-3866
SIGNATURE	DATE 01/31/2014	EMAIL starpoint@etv.net
API NUMBER ASSIGNED 43047542730000		APPROVAL

Received: August 26, 2014

Finley Resources, Inc.
Deep Creek 27-5A-4-2
1923' FNL & 1145' FWL, SW/4 NW/4, Sec 27, T4S, R2E, U.S.B.&M.
Uintah County, UT

Drilling Program

1. Formation Tops

Surface	4,929'
Green River	2,093'
Black Shale	6,188'
Uteland Butte	6,694'
Wasatch	6,811'
TD	8,500'

2. Depth to Oil, Gas, Water, or Minerals

Black Shale	6,188' - 6,694'	(Oil)
Uteland Butte	6,694' - TD	(Oil)

Fresh water may be encountered in the Duchesne Formation, but is not expected below about 300'.

3. Pressure Control

<u>Section</u>	<u>BOP Description</u>
Surface	12-1/4" diverter
Interm/Prod	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 for a 5M system.

A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used.

4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom							Burst	Collapse	Tension
Conductor 13 3/8	0'	60'	48	H-40	STC	--	--	--	1,730	770	322,000
Surface 8 5/8	0'	500'	24	J-55	STC	8.33	8.6	11	2,950	1,370	244,000
Production 5 1/2	0'	8,500'	15.5	J-55	LTC	9	9.2	11	11.59	8.25	20.33
									4,810	4,040	217,000
									1.54	1.26	1.65

Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)

Intermediate casing MASP = (reservoir pressure) - (gas gradient)

Production casing MASP = (reservoir pressure) - (gas gradient)

All collapse calculations assume fully evacuated casing with a gas gradient

All tension calculations assume air weight of casing

Gas gradient = 0.1 psi/ft

All casing shall be new. Top Joint of surface casing will be J-55 STC 32 ppf casing.

All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft ³	OH excess	Weight (ppg)	Yield (ft ³ /sk)
				sacks			
Conductor	17 1/2	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	48	15%	15.8	1.17
				41			
Surface Lead	12 1/4	500'	Class G w/ 2% KCl + 0.25 lbs/sk Flocele	413	100%	15.8	1.17
				359			
Production Lead	7 7/8	4,500'	Econocem-1# granulite+.25# polyflake	975	25%	10.5	3.67
				266			
Production Tail	7 7/8	4,000'	Econocem-.95%bw HR-5+.125# polyflake	1691	25%	12.8	2.35
				720			

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

Actual cement volumes for the production casing string will be calculated from an open hole caliper log, plus 25% excess.

6. Type and Characteristics of Proposed Circulating Medium

<u>Interval</u>	<u>Description</u>
Surface - 500'	An air and/or fresh water system will be utilized.
500' - TD	A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite. Anticipated maximum mud weight is 9.2 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run from TD to the base of the surface casing. A compensated neutron/formation density log will be run from TD to the top of the Garden Gulch formation. A cement bond log will be run from PBTD to the cement top behind the production casing.

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by 0.47 psi/ft gradient.

$$8,500' \times 0.47 \text{ psi/ft} = 3978 \text{ psi}$$

No abnormal temperature is expected. No H₂S is expected.

9. Other Aspects

This is planned as a vertical well.

Based on prior drilling experience in the area, Finley Resources is confident that the 5 1/2" 15.5# production is more than sufficient to avoid any possible mechanical integrity problems relating to collapse or burst conditions.

Variance Request for FIT Requirements:

Finley Resources, Inc. respectfully requests a variance to Onshore Order #2, Section III, Part Bi, for the Pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

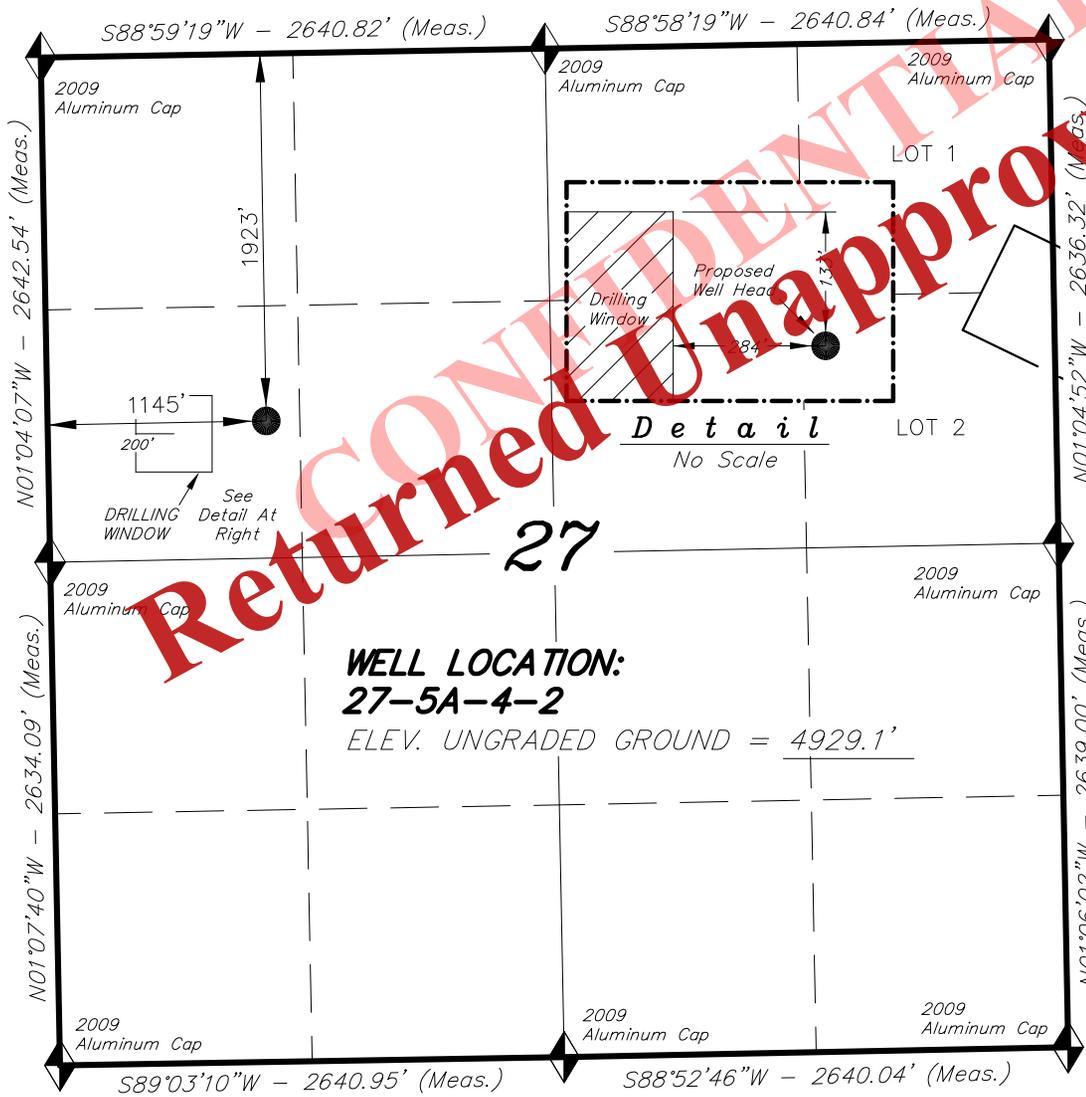
Variance Request for Air Drilling Requirements:

Finley Resources, Inc. respectfully requests a variance to Onshore Order #2, III.E.1

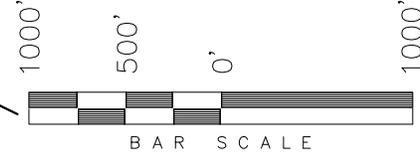
- Dust suppression equipment. Variance granted for water mist system to substitute for the dust suppression equipment.
- Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 75' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the wellbore. Variance granted for truck/trailer mounted air compressors.
- Straight run blooie line. Variance granted for targeted "T's" at bends.
- Automatic igniter. Variance granted for igniter due to water mist.
- Air drilling operations will be conducted only during drilling of the surface casing hole, there is no history of hydrocarbons being encountered in this hole section in the area where these wells are to be drilled.

T4S, R2E, U.S.B.&M.

FINLEY RESOURCES INC.

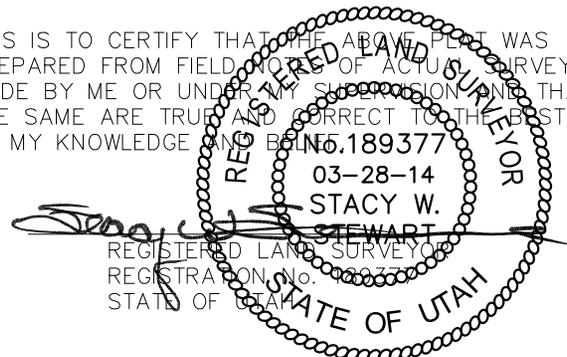


WELL LOCATION, 27-5A-4-2, LOCATED AS SHOWN IN THE SW 1/4 NW 1/4 OF SECTION 27, T4S, R2E, U.S.B.&M. UTAH COUNTY, UTAH.



- NOTES:**
1. Well footages are measured at right angles to the Section Lines.
 2. Bearings are based on Global Positioning Satellite observations.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM 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.



WELL LOCATION:
27-5A-4-2
ELEV. UNGRADED GROUND = 4929.1'

◆ = SECTION CORNERS LOCATED

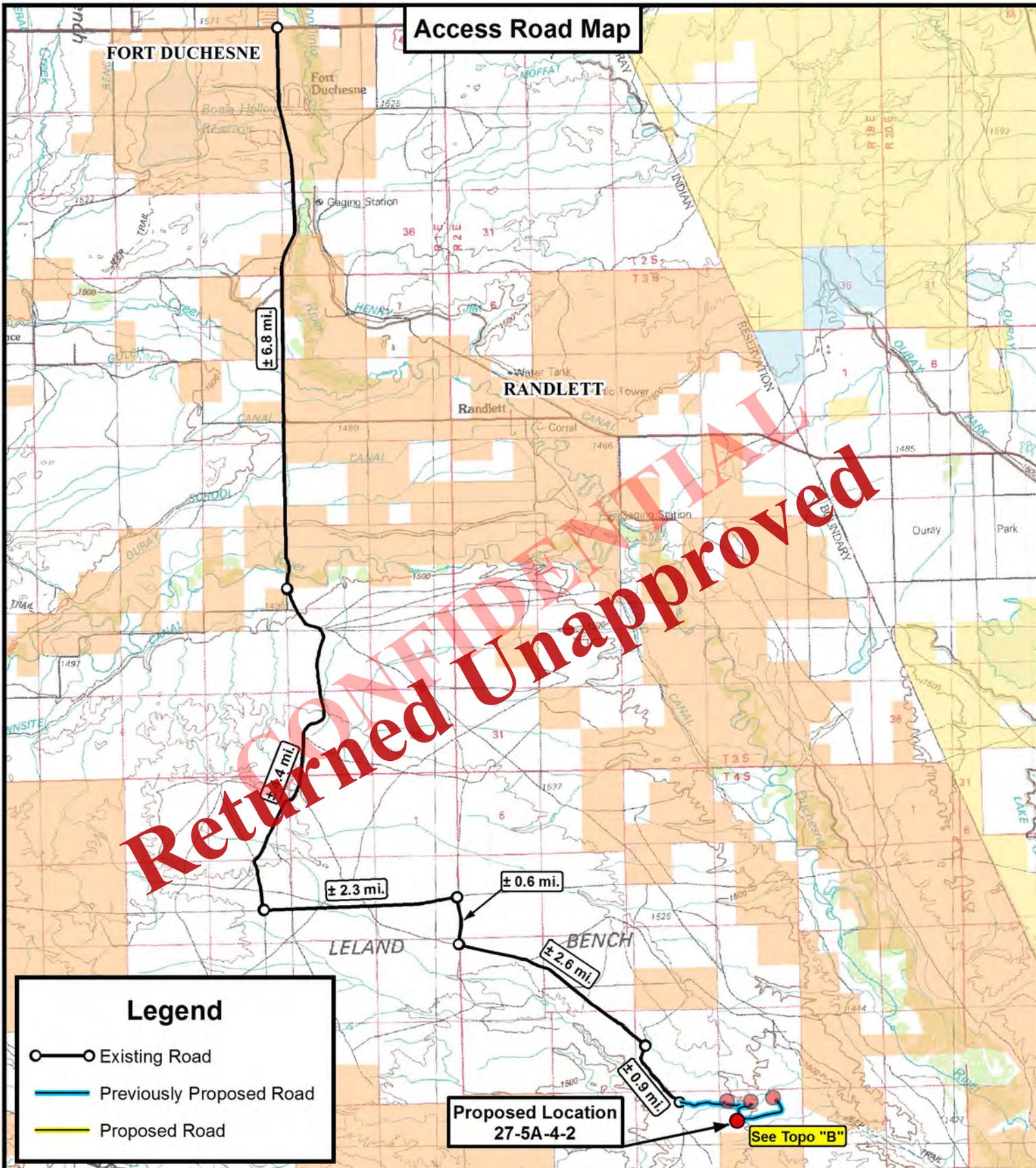
BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

NAD 83 (SURFACE LOCATION)	
LATITUDE	= 40°06'34.57"
LONGITUDE	= 109°45'33.53"

TRI STATE LAND SURVEYING & CONSULTING 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 03-26-14	SURVEYED BY: M.C.
DATE DRAWN: 01-22-14	DRAWN BY: L.C.S.
REVISED: 03-28-14 M.W.	SCALE: 1" = 1000'

Received: April 22, 2014

Access Road Map



Legend

- Existing Road
- Previously Proposed Road
- Proposed Road

Proposed Location
27-5A-4-2

See Topo "B"



**Tri State
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518



FINLEY RESOURCES INC.

27-5A-4-2

Sec. 27, T4S, R2E, U.S.B.&M.
Uintah County, UT.

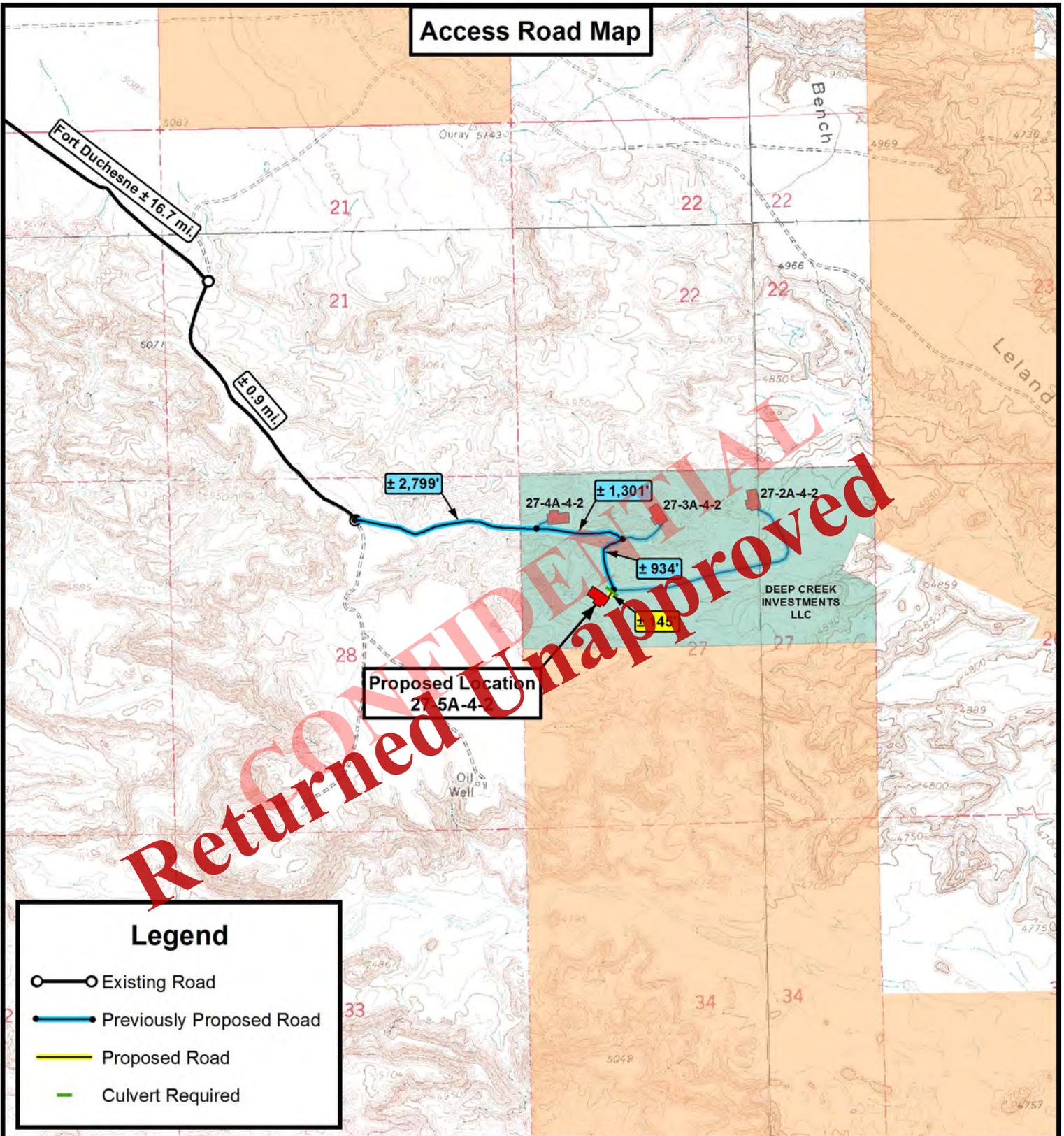
DRAWN BY:	D.C.R.	REVISED:	03-28-14 A.P.C.
DATE:	01-23-2014		
SCALE:	1:100,000		

TOPOGRAPHIC MAP

SHEET
A

Received: April 22, 2014

Access Road Map



Legend

- Existing Road
- Previously Proposed Road
- Proposed Road
- Culvert Required

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518



FINLEY RESOURCES INC.

27-5A-4-2
Sec. 27, T4S, R2E, U.S.B.&M.
Uintah County, UT.

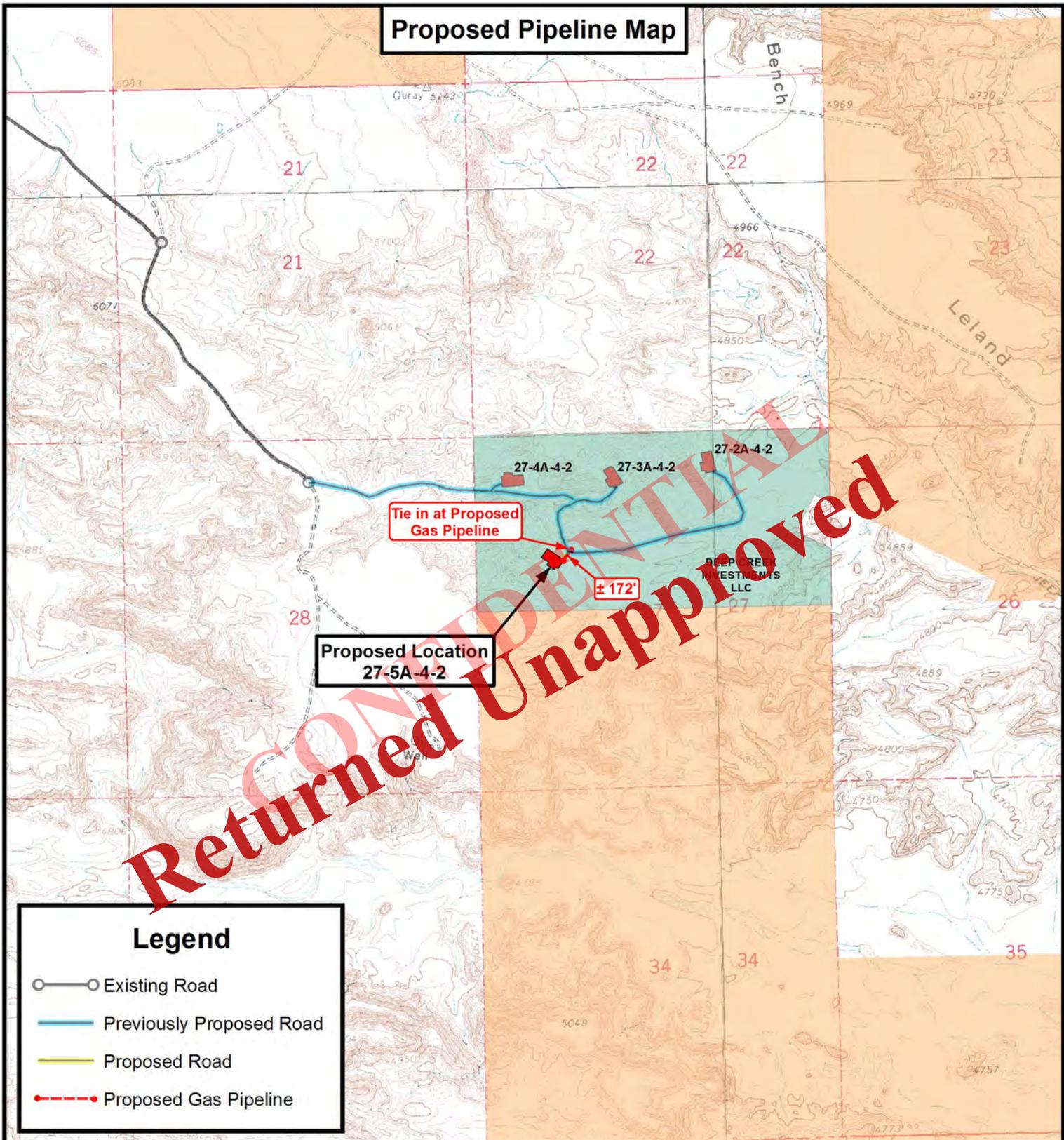
DRAWN BY:	D.C.R.	REVISED:	03-28-14 A.P.C.
DATE:	01-23-2014		
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
B

Received: April 22, 2014

Proposed Pipeline Map



Legend

- Existing Road
- Previously Proposed Road
- Proposed Road
- Proposed Gas Pipeline

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



**Tri State
Land Surveying, Inc.**
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518



FINLEY RESOURCES INC.
27-5A-4-2
Sec. 27, T4S, R2E, U.S.B.&M.
Uintah County, UT.

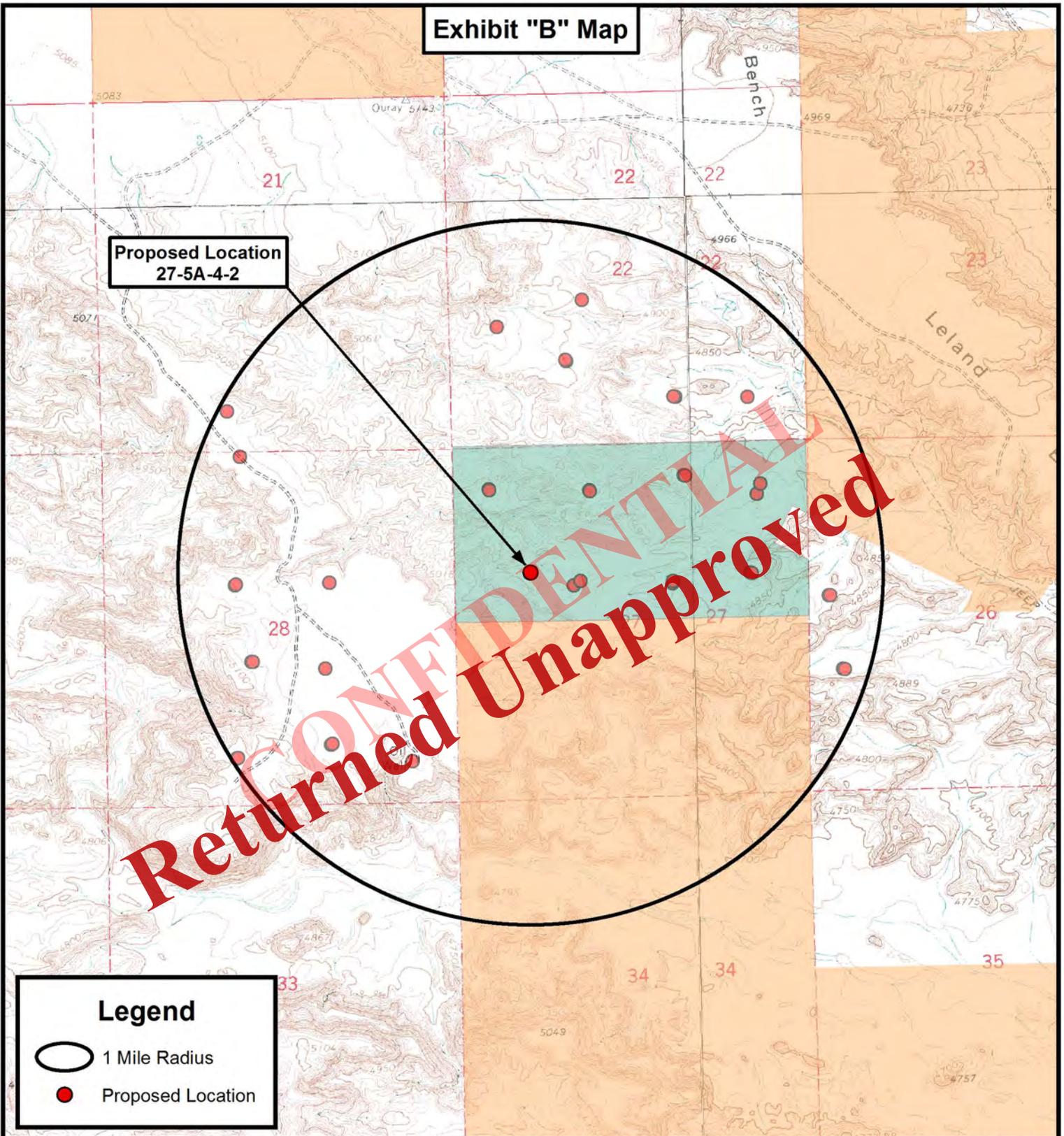
DRAWN BY:	D.C.R.	REVISED:	03-28-14 A.P.C.
DATE:	01-23-2014		
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
C

Received: April 22, 2014

Exhibit "B" Map



**Proposed Location
27-5A-4-2**

Legend

-  1 Mile Radius
-  Proposed Location

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



**Tri State
Land Surveying, Inc.**
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518



FINLEY RESOURCES INC.

27-5A-4-2
Sec. 27, T4S, R2E, U.S.B.&M.
Uintah County, UT.

DRAWN BY:	D.C.R.	REVISED:	03-28-14 A.P.C.
DATE:	01-23-2014		
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
D

Received: April 22, 2014

**AFFIDAVIT OF EASEMENT, RIGHT-OF-WAY
AND SURFACE USE AGREEMENT**

State: Utah
County: Uintah
Affiant: Scott Ramsey, Land Manager, Finley Resources Inc.

Pursuant to the State of Utah R649-3-34.7, I Scott Ramsey personally attests and duly swears and deposes the following information:

My name is Scott Ramsey. I am the Land Manger for Finley Resources Inc., authorized to do business in the State of Utah, whose address is 1308 Lake Street, Fort Worth, Texas 76102, hereinafter referred to as ("Finley"). Finley owns, operates and manages oil and gas properties in Uintah County, Utah. Finley is the owner of certain oil and gas leasehold in the Section 26, 27 & 35 Township 4 South Range 2 East where a future drillsite location, right-of-way, easement will be located.

Finley and the Surface Owner, Deep Creek Investments, LLC have executed a Surface Use Agreement, covering but not limited to, future drill site locations, right-of-ways and easements, dated January 29, 2014 which include the right of ingress and egress, the right to construct drill site locations and rights-of-way under, through and across the following lands:

- Township 4 South, Range 2 East, USM**
- Section 7: S/2**
- Section 8: S/2**
- Section 9: NE/4 & S/2**
- Section 10: W/2NW/4 & W/2SW/4**
- Section 15: S/2**
- Section 16: N/2**
- Section 21: All**
- Section 22: All**
- Section 26: Lot 3, 4, 7, 8, 11, 12, W/2SW/4, SE/4SW/4 & the SW/4SE/4**
- Section 27: Lot 1, 2, W/2NE/4 & NW/4**
- Section 28: ALL**
- Section 35: Lot 1, 2, W/2NE/4 & the NW/4**

Furthermore, this shall serve as sufficient notice of Finley's agreement to access the aforementioned lands for the future development of the oil and gas leasehold.

Scott Ramsey, Land Manager
Finley Resources Inc.

ACKNOWLEDGEMENT

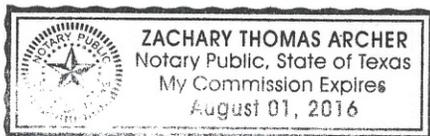
STATE OF TEXAS §

COUNTY OF TARRANT §

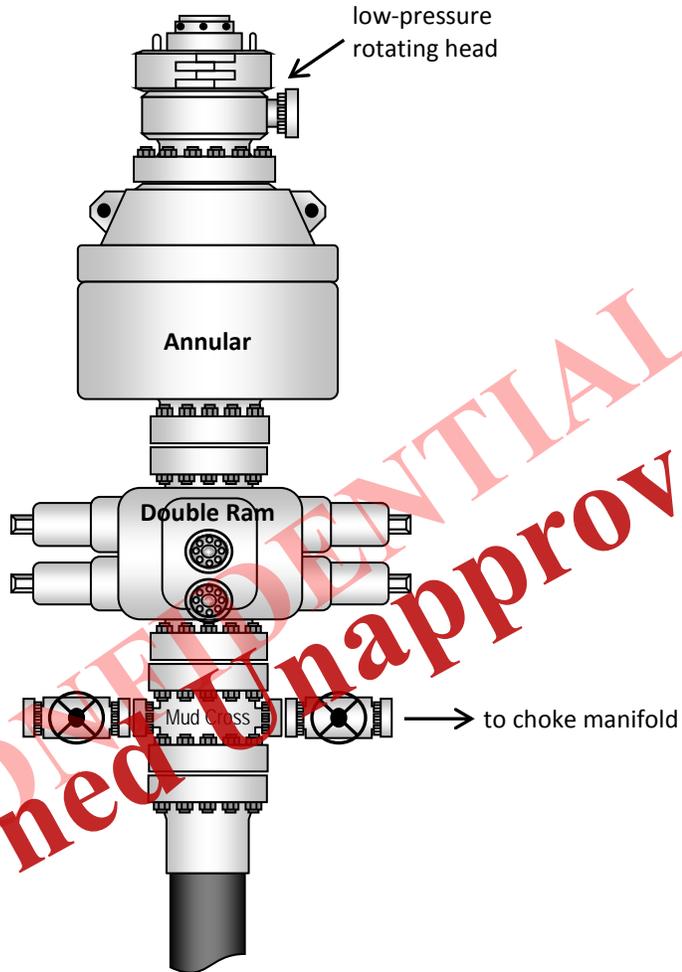
Before me the undersigned, a Notary Public, in and for said County and State, on this 29th day of January, 2014, personally appeared Scott Ramsey, as Land Manager, of Finley Resources Inc., to me known to be the identical person who subscribed the name of the maker therefore to the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

J. Thomas Archer
NOTARY PUBLIC
My Commission Expires: 8. 1. 2016

[SEAL]



Typical 5M BOP stack configuration



CONFIDENTIAL
Returned Unapproved

FINLEY

resources

P.O. Box 2200
Fort Worth, TX 76113
817-231-8735

January 31, 2014

Mrs. Diana Mason
State of Utah
Division of Oil Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Request for Exception to Spacing – Finley Resources, Inc. – **Deep Creek 27-5A-4-2**
2147' FNL & 863' FWL, SW/4 NW/4, Section 27, T4S, R2E, USB&M
Uintah County, Utah

Dear Diana:

Finley Resources, Inc. respectfully submits this request for exception to spacing (R649-3-3) based on geology since the well is located less than 460 feet to the drilling unit boundary. Finley Resources, Inc. is the only owner and operator within 460 feet of the surface and target location as well as all points along the intended well bore path, and neither the surface nor target locations are within 460 feet of any uncommitted tracts or a unit boundary.

Thank you very much for your timely consideration of this application. Please feel free to contact me at 817-231-8759 should you have any questions or need additional information.

Sincerely,

Zachary Archer
Finley Resources, Inc.
817-231-8759

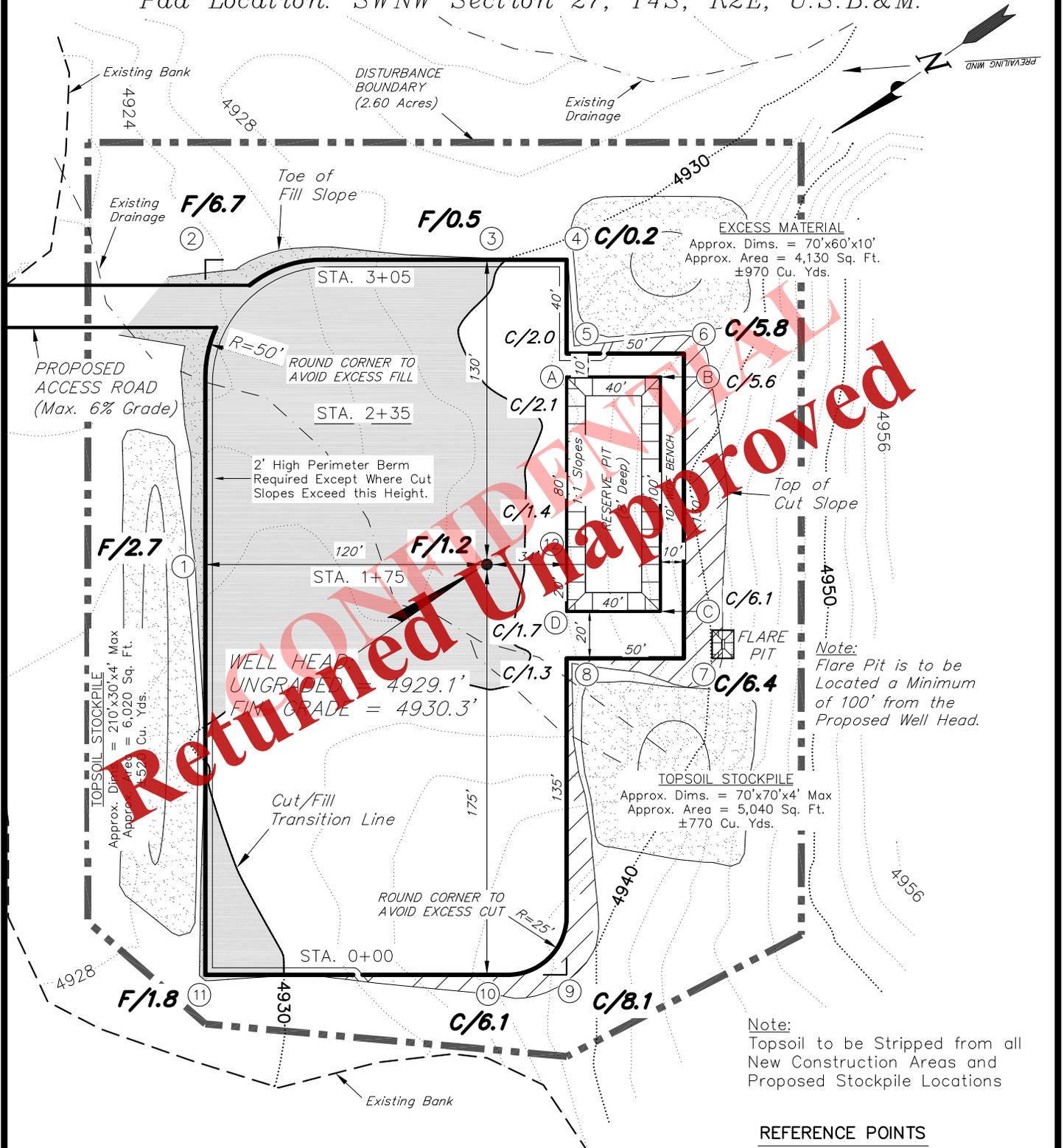
Received: January 31, 2014

FINLEY RESOURCES INC.

PROPOSED LOCATION LAYOUT

27-5A-4-2

Pad Location: SWNW Section 27, T4S, R2E, U.S.B.&M.



Returned Unapproved

NOTE:

The topsoil & excess material areas are calculated as being mounds containing 2,260 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

SURVEYED BY:	M.C.	DATE SURVEYED:	03-26-14
DRAWN BY:	L.C.S.	DATE DRAWN:	01-22-14
SCALE:	1" = 60'	REVISED:	M.W. 03-28-14

REFERENCE POINTS

- 170' NORTHEASTERLY - 4925.5'
- 210' NORTHEASTERLY - 4924.6'
- 210' NORTHWESTERLY - 4933.0'
- 260' NORTHWESTERLY - 4934.1'

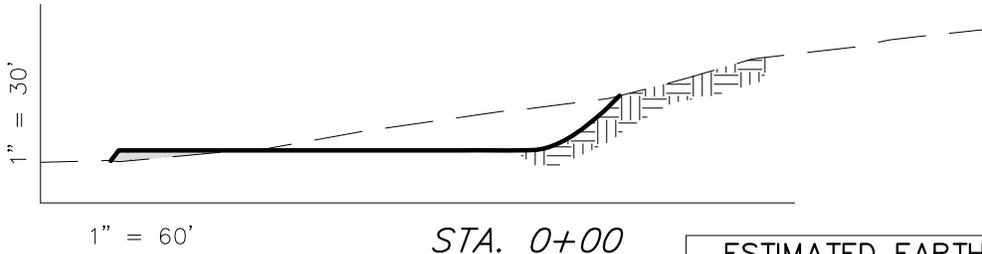
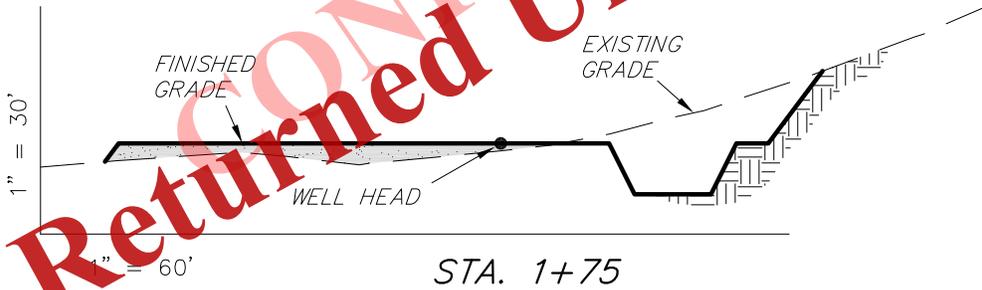
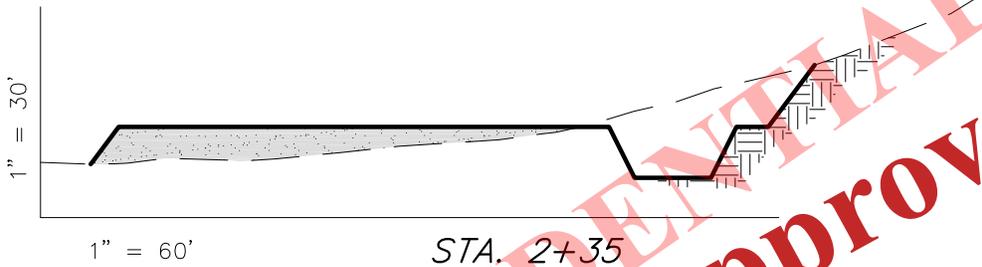
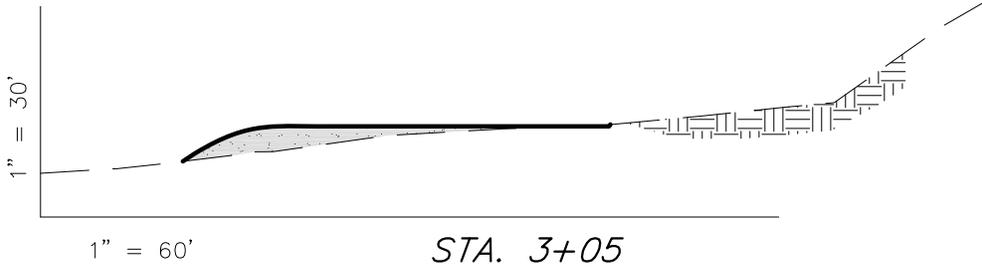
Tri State (435) 781-2501
 Land Surveying, Inc.
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

FINLEY RESOURCES INC.

CROSS SECTIONS

27-5A-4-2

Pad Location: SWNW Section 27, T4S, R2E, U.S.B.&M.



CONFIDENTIAL
Returned Unapproved

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	3,020	3,020	Topsoil is not included in Pad Cut Volume	0
PIT	880	0		880
TOTALS	3,900	3,020	1,180	880

NOTE:
UNLESS OTHERWISE
NOTED ALL CUT/FILL
SLOPES ARE AT 1.5:1

SURVEYED BY:	M.C.	DATE SURVEYED:	03-26-14
DRAWN BY:	L.C.S.	DATE DRAWN:	01-22-14
SCALE:	1" = 60'	REVISED:	M.W. 03-28-14

Tri State
 Land Surveying, Inc.
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078
 (435) 781-2501

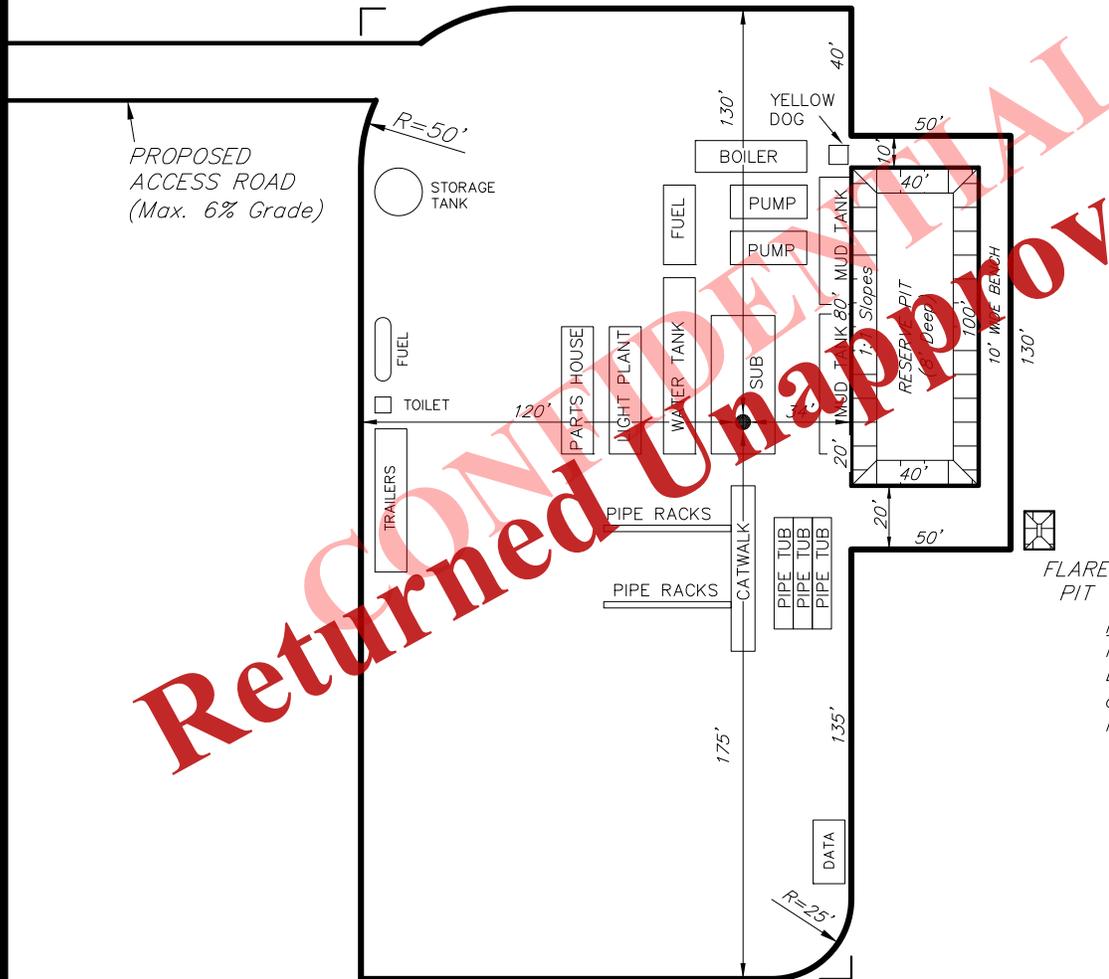
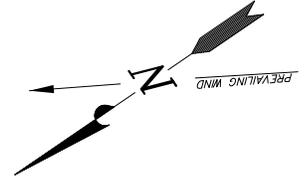
Received: April 22, 2014

FINLEY RESOURCES INC.

TYPICAL RIG LAYOUT

27-5A-4-2

Pad Location: SWNW Section 27, T4S, R2E, U.S.B.&M.



RETURNED UNAPPROVED

Note:
Flare Pit is to be Located a Minimum of 100' from the Proposed Well Head.

SURVEYED BY:	M.C.	DATE SURVEYED:	03-26-14
DRAWN BY:	L.C.S.	DATE DRAWN:	01-22-14
SCALE:	1" = 60'	REVISED:	M.W. 03-28-14

Tri State (435) 781-2501
 Land Surveying, Inc.
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

Received: April 22, 2014

Well Name	FINLEY RESOURCES INC Deep Creek 27-5A-4-2 43047542730000			
String	COND	SURF	PROD	
Casing Size(")	13.375	8.625	5.500	
Setting Depth (TVD)	60	1000	8500	
Previous Shoe Setting Depth (TVD)	0	60	1000	
Max Mud Weight (ppg)	8.3	8.6	9.2	
BOPE Proposed (psi)	0	500	5000	
Casing Internal Yield (psi)	1000	3930	4810	
Operators Max Anticipated Pressure (psi)	3978		9.0	

Calculations	COND String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	26	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	19	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	13	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	13	NO
Required Casing/BOPE Test Pressure=		60	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

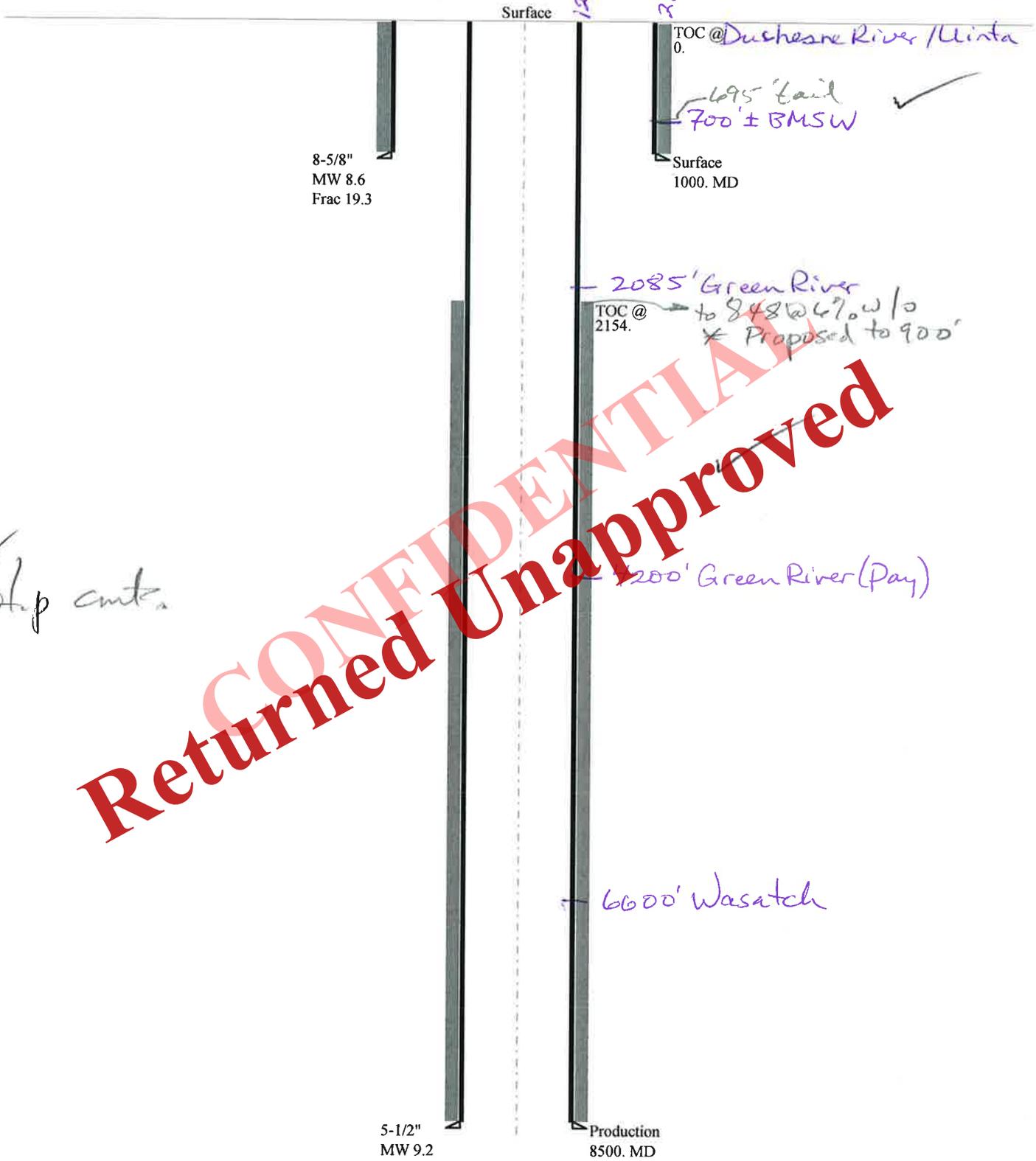
Calculations	SURF String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	447	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	327	YES diverter
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	227	YES Ok
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	240	NO OK
Required Casing/BOPE Test Pressure=		1000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		60	psi *Assumes 1psi/ft frac gradient

Calculations	PROD String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	4066	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3046	YES 5M BOP, two ram preventers, annular preventer, choke
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2196	YES manifold
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2416	NO OK
Required Casing/BOPE Test Pressure=		3367	psi
*Max Pressure Allowed @ Previous Casing Shoe=		1000	psi *Assumes 1psi/ft frac gradient

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

43047542730000 Deep Creek 27-5A-4-2

Casing Schematic



8-5/8"
MW 8.6
Frac 19.3

TOC @ Dushesne River / Uinta
0.

Surface
1000. MD

TOC @
2154.

5-1/2"
MW 9.2

Production
8500. MD

✓ Slip center

CONFIDENTIAL
Returned Unapproved

Well name: **43047542730000 Deep Creek 27-5A-4-2**
 Operator: **FINLEY RESOURCES INC**
 String type: **Surface**
 Location: **UINTAH COUNTY**
 Project ID: **43-047-54273**

Design parameters:

Collapse

Mud weight: 8.600 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 88 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 880 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 1,000 psi

No backup mud specified.

Tension:

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

Tension is based on buoyed weight.
 Neutral point: 872 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 8,500 ft
 Next mud weight: 9.200 ppg
 Next setting BHP: 4,062 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 1,000 ft
 Injection pressure: 1,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1000	8.625	32.00	J-55	ST&C	1000	1000	7.875	7979
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	447	2530	5.664	1000	3930	3.93	27.9	372	13.33 J

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

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

Date: April 14, 2014
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1000 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

Received: May 01, 2014

Well name:	43047542730000 Deep Creek 27-5A-4-2		Project ID:	43-047-54273
Operator:	FINLEY RESOURCES INC			
String type:	Production			
Location:	UINTAH COUNTY			

Design parameters:

Collapse

Mud weight: 9.200 ppg
 Internal fluid density: 1.100 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 193 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft

Burst:

Design factor 1.00

Cement top: 2,154 ft

Burst

Max anticipated surface pressure: 2,192 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 4,062 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)

Non-directional string.

Tension is based on buoyed weight
 Neutral point: 7,317 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	8500	5.5	15.50	J-55	LT&C	8500	8500	4.825	30013
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	3577	4040	1.130	4062	4810	1.18	113.4	217	1.91 J

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

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

Date: April 14, 2014
 Salt Lake City, Utah

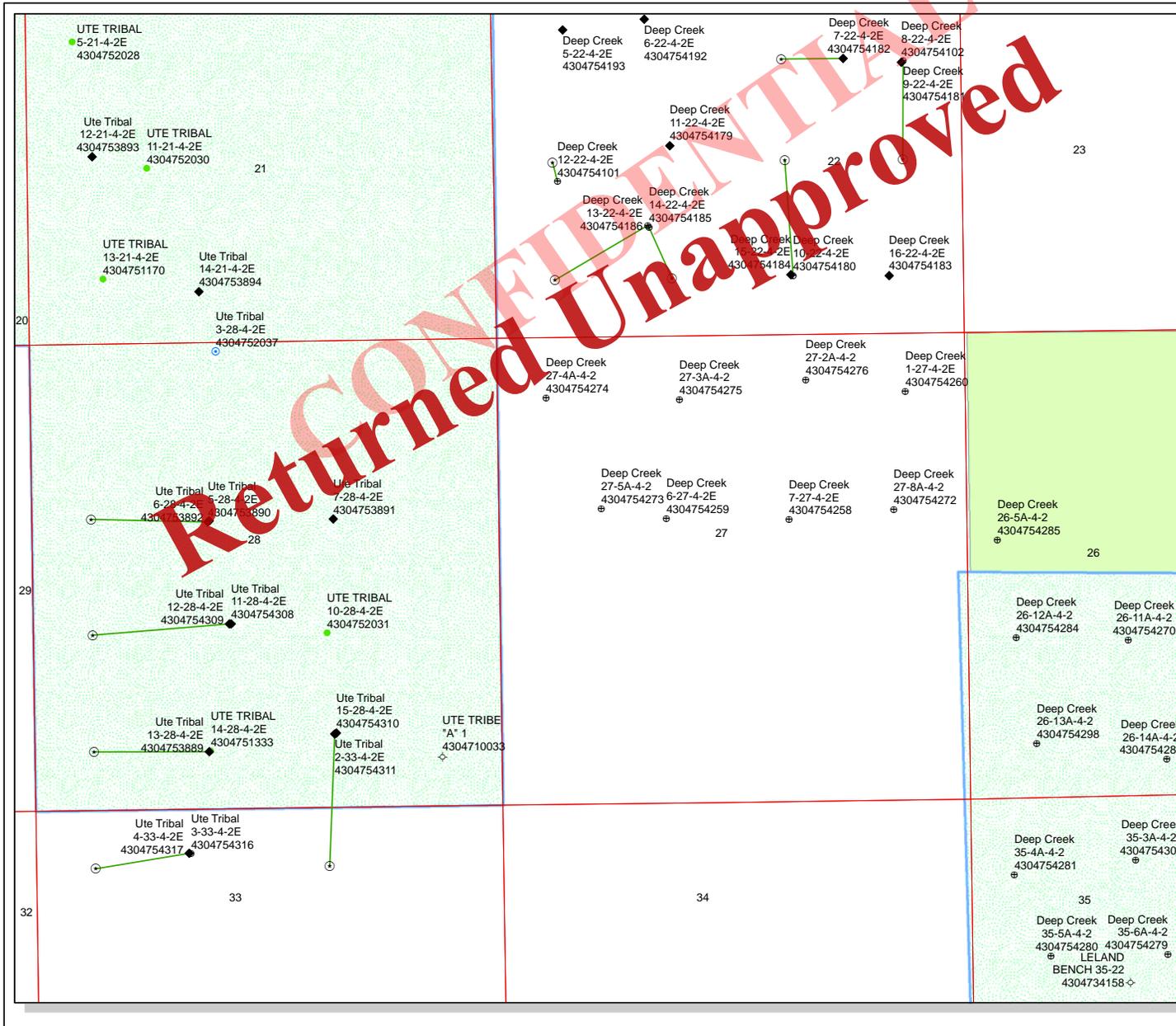
Remarks:

Collapse is based on a vertical depth of 8500 ft, a mud weight of 9.2 ppg. An internal gradient of .057 psi/ft was used for collapse from TD to Collapsed strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

Received: May 01, 2014



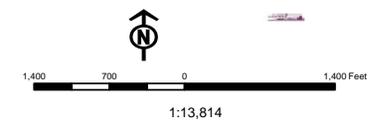
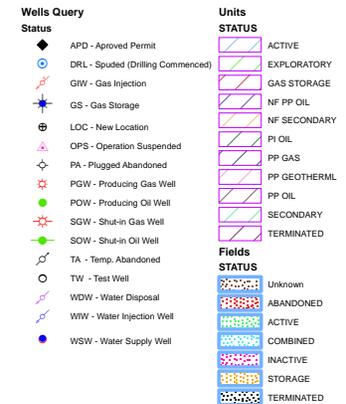
API Number: 4304754273

Well Name: Deep Creek 27-5A-4-2

Township: T04.0S Range: R02.0E Section: 27 Meridian: U

Operator: FINLEY RESOURCES, INC.

Map Prepared: 5/9/2014
Map Produced by Diana Mason





Diana Mason <dianawhitney@utah.gov>

FW: Approved DOGM Permits

Star Point Enterprises, Inc. <starpoint@etv.net>

Mon, Aug 25, 2014 at 11:21 AM

Reply-To: starpoint@etv.net

To: dianawhitney@utah.gov, Brad Hill <BRADHILL@utah.gov>

Cc: Zachary Archer <ZArcher@finleyresources.com>, Helen MacDonald <hmacdonald@utah.gov>

Diana;

Finley Resources, Inc. respectfully requests that the following APD's be rescinded following an earlier operating agreement between Finley and Crescent (memorandum attached):

Applications For FINLEY RESOURCES INC

APD	API Well No	Well Name
9342	43047542760000	Deep Creek 27-2A-4-2
9343	43047542750000	Deep Creek 27-3A-4-2
9344	43047542740000	Deep Creek 27-4A-4-2
9345	43047542730000	Deep Creek 27-5A-4-2
9346	43047542720000	Deep Creek 27-8A-4-2
9347	43047542710000	Deep Creek 26-10A-4-2
9348	43047542700000	Deep Creek 26-11A-4-2
9357	43047542850000	Deep Creek 26-5A-4-2
9358	43047542840000	Deep Creek 26-12A-4-2
9359	43047542830000	Deep Creek 26-14A-4-2
9360	43047542820000	Deep Creek 26-15A-4-2

CONFIDENTIAL
Returned Unapproved



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

August 26, 2014

FINLEY RESOURCES INC
PO Box 2200
Fort Worth, TX 76113

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

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the Deep Creek 27-5A-4-2 well, API 43047542730000 that was submitted January 31, 2014 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



