

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER Deep Creek 26-12A-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 NATURAL BUTTES				
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		1825 FSL 514 FWL		NWSW	26	4.0 S	2.0 E	U		
Top of Uppermost Producing Zone		1825 FSL 514 FWL		NWSW	26	4.0 S	2.0 E	U		
At Total Depth		1825 FSL 514 FWL		NWSW	26	4.0 S	2.0 E	U		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 514			23. NUMBER OF ACRES IN DRILLING UNIT 40				
27. ELEVATION - GROUND LEVEL 4794			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completion) 1175			26. PROPOSED DEPTH MD: 8500 TVD: 8500				
28. BOND NUMBER RLB0011264			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-11500							
<b>Hole, Casing, and Cement Information</b>										
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 - 1000	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
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<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 Zachary Archer			TITLE Landman			PHONE 817-231-8759				
SIGNATURE			DATE 02/03/2014			EMAIL zarcher@finleyresources.com				
API NUMBER ASSIGNED 43047542840000					APPROVAL					

**Finley Resources, Inc.**  
**Deep Creek 26-12A-4-2**  
**1825' FSL & 514' FWL, NW/4 SW/4, Sec 26, T4S, R2E, U.S.B.&M.**  
**Uintah County, UT**

**Drilling Program**

**1. Formation Tops**

Duchesne River	surface
Green River(top)	2,085'
Green River(pay)	4,200'
Wasatch	6,600'
TD	8,500'

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

Green River(pay)	2,700' - 4,200'	(Oil)
Wasatch	6,600' - 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" c/w/ener

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'	1,000'	32	J-55	STC	8.33	8.6	11	3,930	2,530	417,000
									7.72	7.62	13.03
Production 5 1/2	0'	8,500'	15.5	J-55	LTC	9	9.2	11	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.

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 <sup>3</sup>	OH excess	Weight (ppg)	Yield (ft <sup>3</sup> /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	700'	Premium Lite II w/ 3% KCl + 10% bentonite	578	100%	11.0	3.53
				164			
Surface Tail	12 1/4	300'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	248	100%	12.8	1.17
				212			
Production Tail	7 7/8	7,600'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	1646	25%	12.8	1.24
				132			

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

### Interval                      Description

Surface - 1,000'              An air and/or fresh water system will be utilized.

1,000' - 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 PBDT 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 a 0.47 psi/ft gradient.

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

No abnormal temperature is expected. No H<sub>2</sub>S is expected.

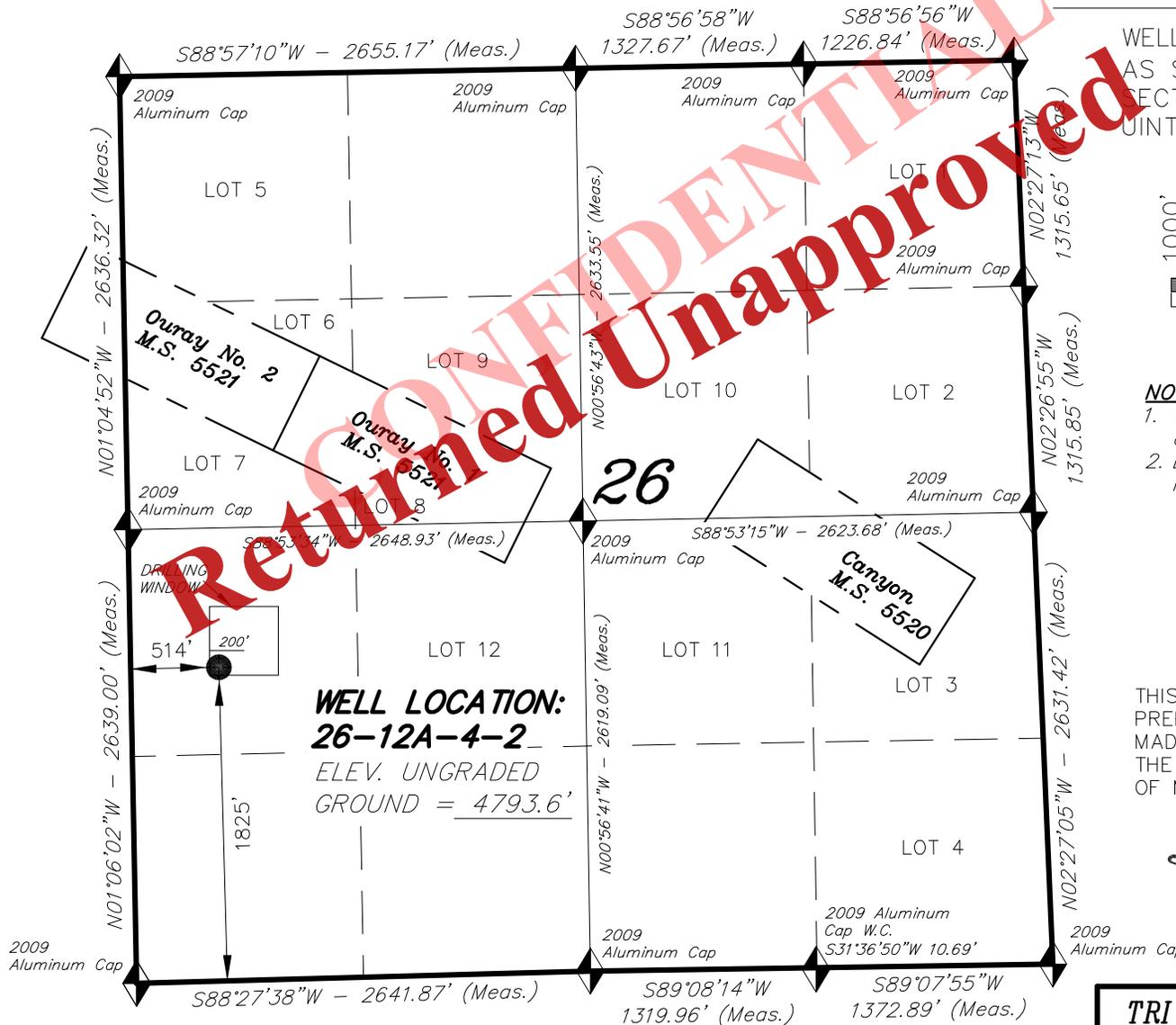
**9. Other Aspects**

This is planned as a vertical well.

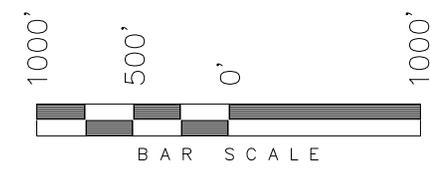
**CONFIDENTIAL**  
**Returned Unapproved**

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

FINLEY RESOURCES INC.



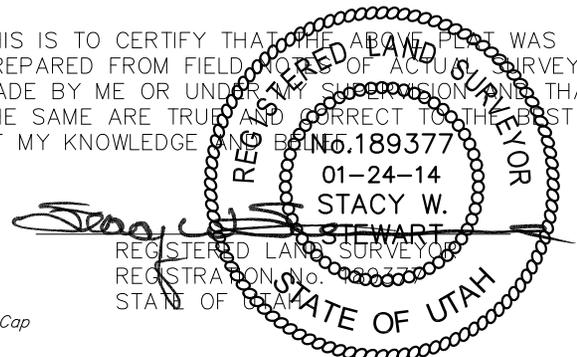
WELL LOCATION, 26-12A-4-2, LOCATED AS SHOWN IN THE NW 1/4 SW 1/4 OF SECTION 26, T4S, R2E, U.S.B.&M. MOUNTAIN COUNTY, UTAH.



- 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 PLOT 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.



◆ = SECTION CORNERS LOCATED

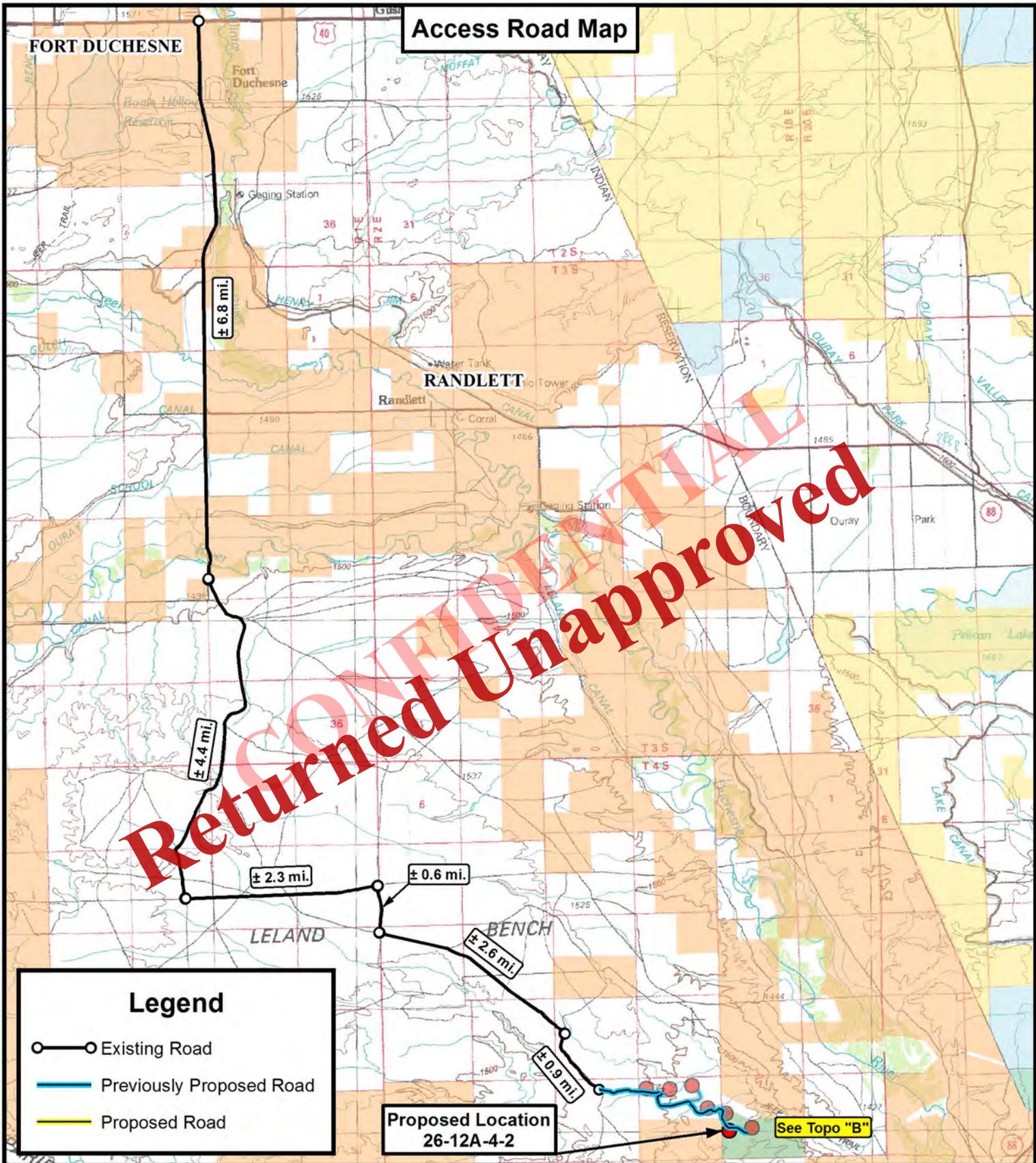
BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT.  $40^{\circ}04'09.56''$  LONG.  $110^{\circ}00'43.28''$  (Tristate Aluminum Cap) Elev. 5281.57'

**NAD 83 (SURFACE LOCATION)**  
 LATITUDE =  $40^{\circ}06'19.45''$   
 LONGITUDE =  $109^{\circ}44'33.70''$

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b> 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 01-23-14	SURVEYED BY: G.D.O.
DATE DRAWN: 01-24-14	DRAWN BY: L.K.
REVISED:	SCALE: 1" = 1000'

Received: February 03, 2014

# Access Road Map



## Legend

- Existing Road
- Previously Proposed Road
- Proposed Road

Proposed Location  
26-12A-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.**  
26-12A-4-2  
Sec. 26, T4S, R2E, U.S.B.&M.  
Uintah County, UT.

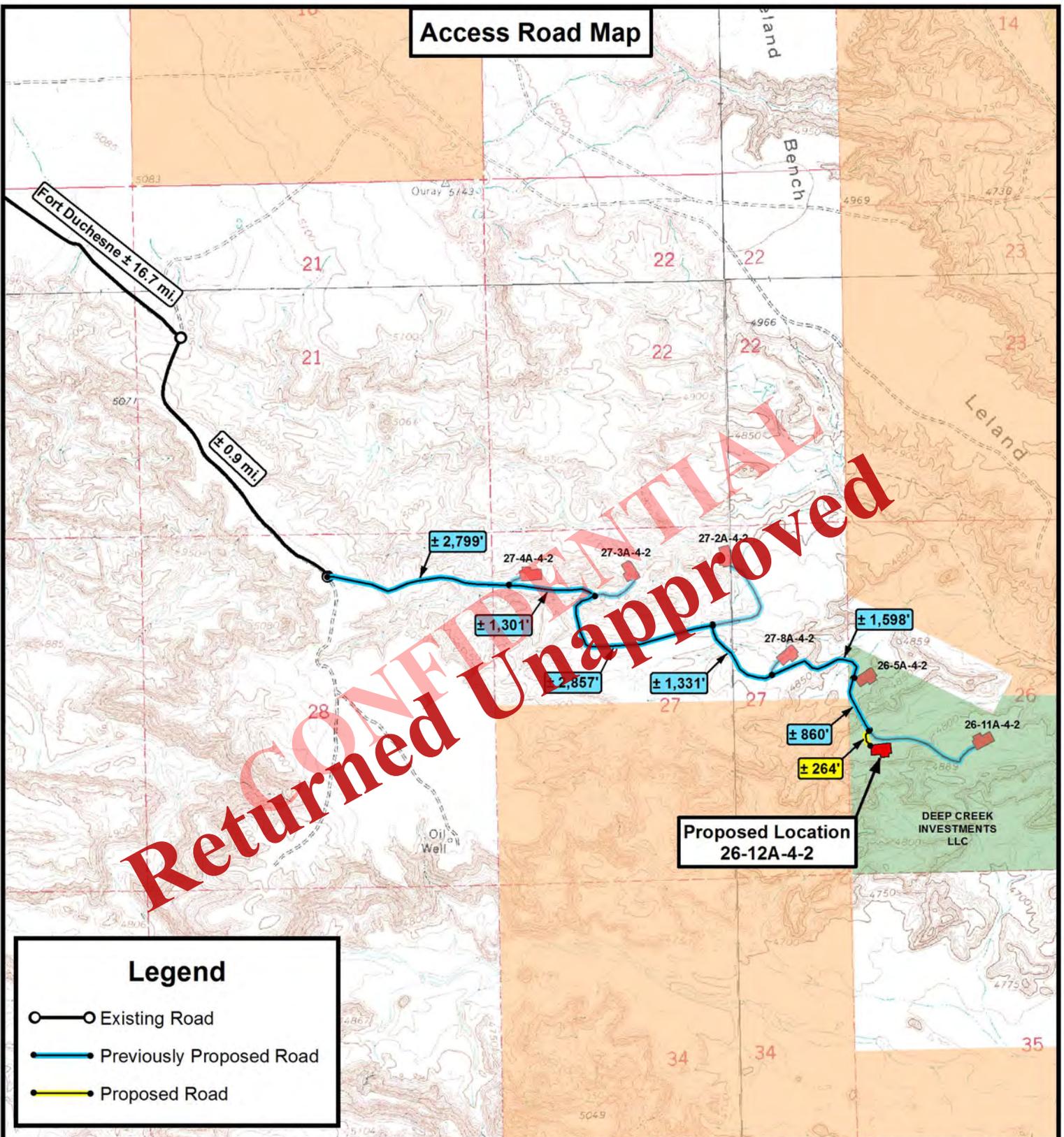
DRAWN BY:	A.P.C.	REVISED:
DATE:	01-28-2014	
SCALE:	1:100,000	

**TOPOGRAPHIC MAP**

SHEET  
**A**

Received: February 03, 2014

# Access Road Map



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.

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



**FINLEY RESOURCES INC.**  
 26-12A-4-2  
 Sec. 26, T4S, R2E, U.S.B.&M.  
 Uintah County, UT.

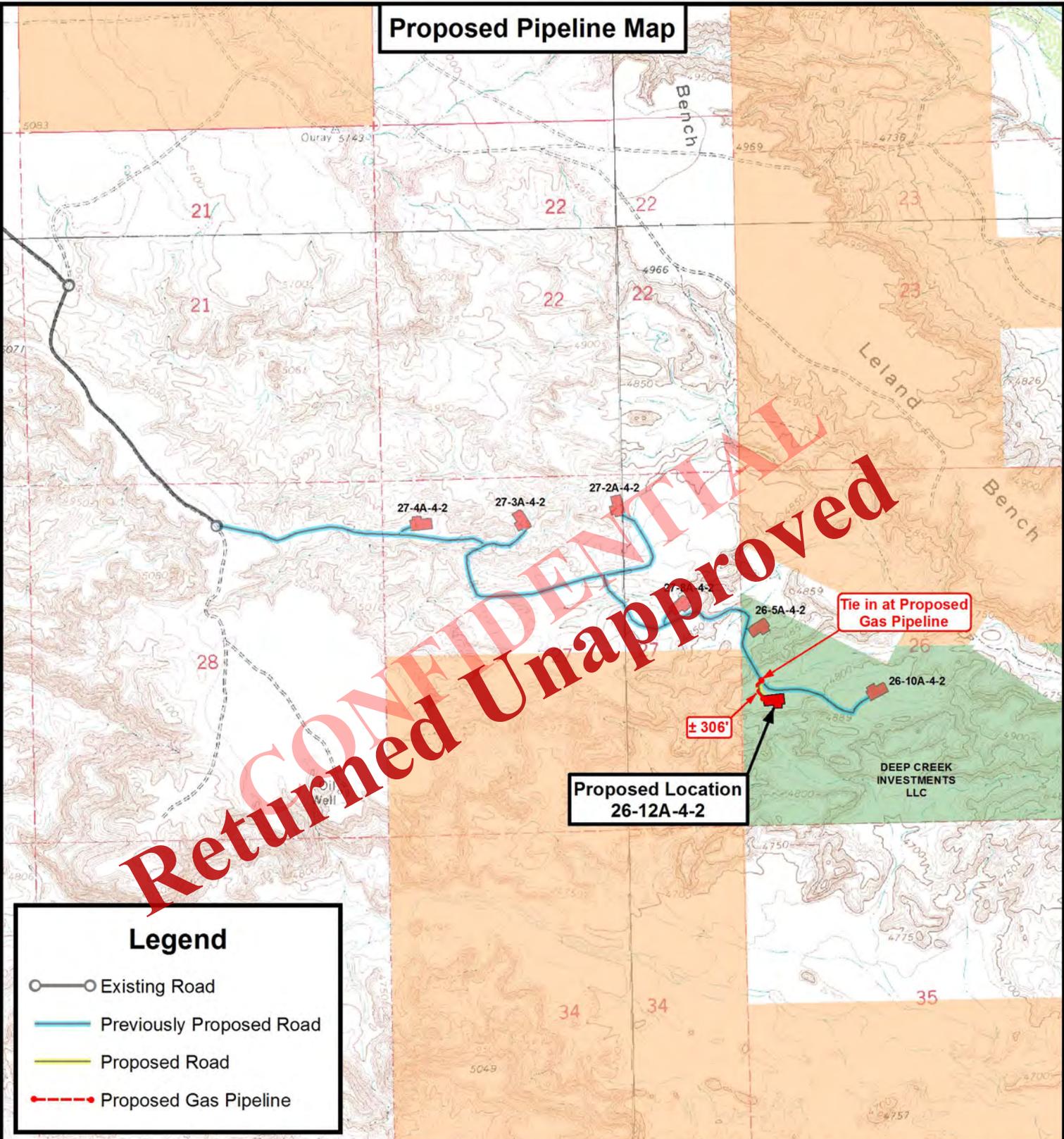
DRAWN BY:	A.P.C.	REVISED:
DATE:	01-28-2014	
SCALE:	1" = 2,000'	

**TOPOGRAPHIC MAP**

SHEET  
**B**

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**Proposed Pipeline Map**



**Legend**

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

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**FINLEY RESOURCES INC.**  
26-12A-4-2  
Sec. 26, T4S, R2E, U.S.B.&M.  
Uintah County, UT.

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

<b>TOPOGRAPHIC MAP</b>	SHEET <b>C</b>
------------------------	-------------------

**Received: February 03, 2014**

**Exhibit "B" Map**

**Proposed Location  
26-12A-4-2**

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**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.



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

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



**FINLEY RESOURCES INC.**  
26-12A-4-2  
Sec. 26, T4S, R2E, U.S.B.&M.  
Uintah County, UT.

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

**TOPOGRAPHIC MAP**

SHEET  
**D**

**Received: February 03, 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**

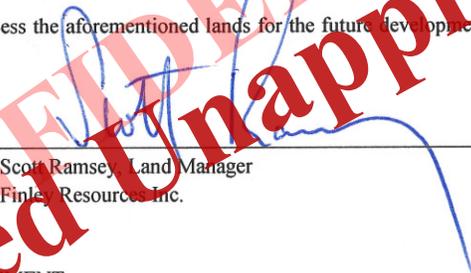
**Section 26: Lot 3, 4, 7, 8, 11, 12, W/2SW/4, SE/4SW/4 & the SW/4SE/4**

**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.

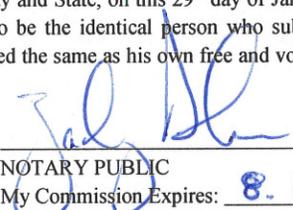
  
\_\_\_\_\_  
Scott Ramsey, Land Manager  
Finley Resources Inc.

ACKNOWLEDGEMENT

STATE OF TEXAS §

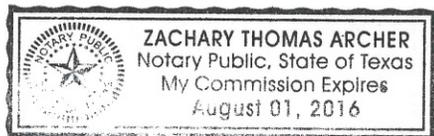
COUNTY OF TARRANT §

Before me the undersigned, a Notary Public, in and for said County and State, on this 29<sup>th</sup> 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.

  
\_\_\_\_\_  
NOTARY PUBLIC

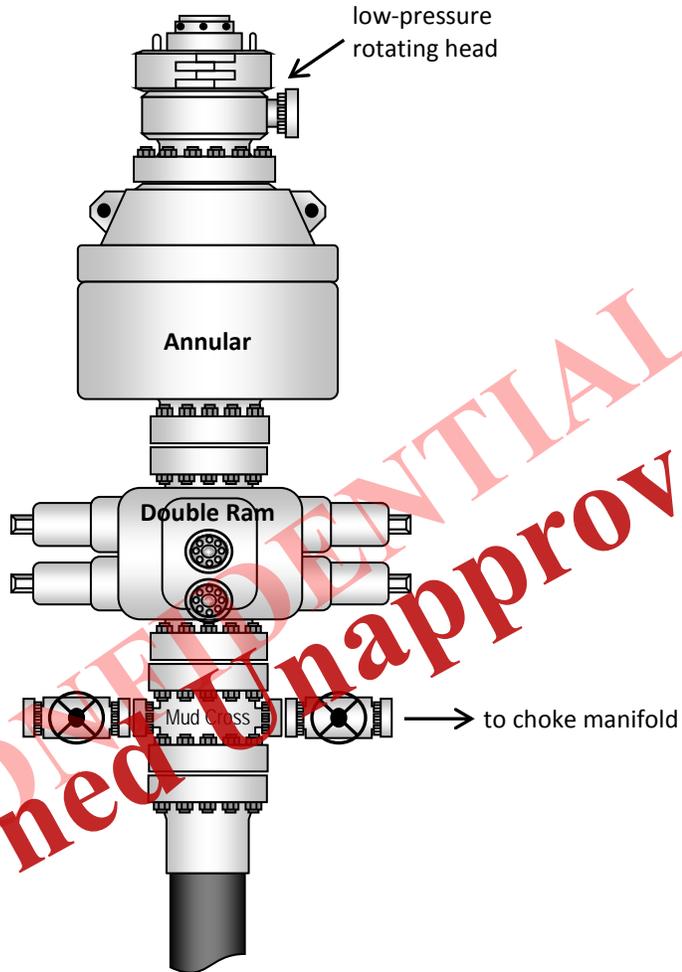
My Commission Expires: 8. 1. 2016

[SEAL]



**Received: February 03, 2014**

Typical 5M BOP stack configuration



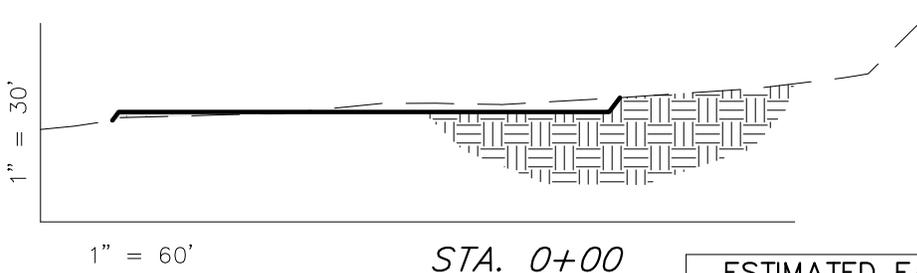
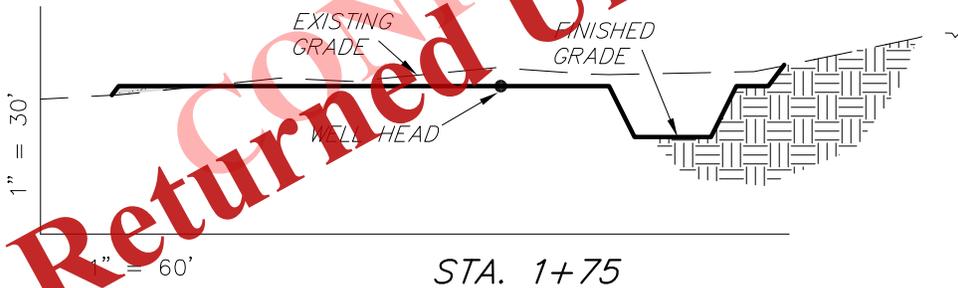
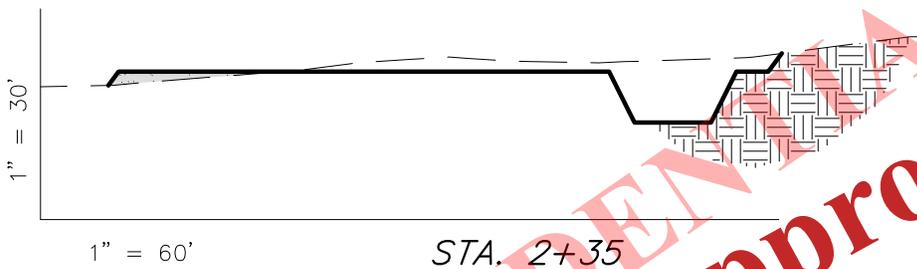
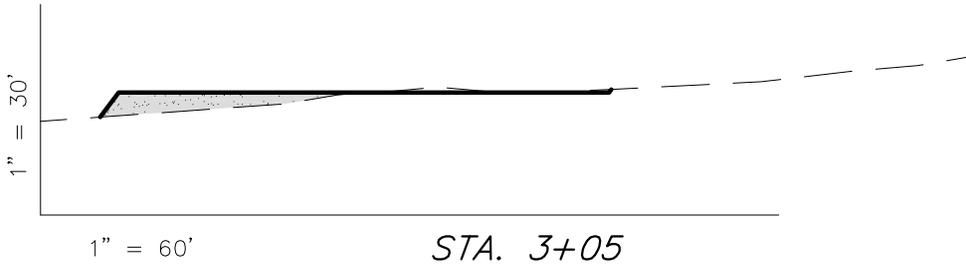


# FINLEY RESOURCES INC.

## CROSS SECTIONS

26-12A-4-2

Pad Location: NWSW Section 26, T4S, R2E, U.S.B.&M.



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

**ESTIMATED EARTHWORK QUANTITIES**  
(No Shrink or swell adjustments have been used)  
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	1,150	1,150	Topsoil is not included in Pad Cut Volume	0
PIT	880	0		880
TOTALS	2,030	1,150	1,180	880

SURVEYED BY:	G.D.O.	DATE SURVEYED:	01-23-14
DRAWN BY:	L.K.	DATE DRAWN:	01-24-13
SCALE:	1" = 60'	REVISED:	L.K. 03-26-14

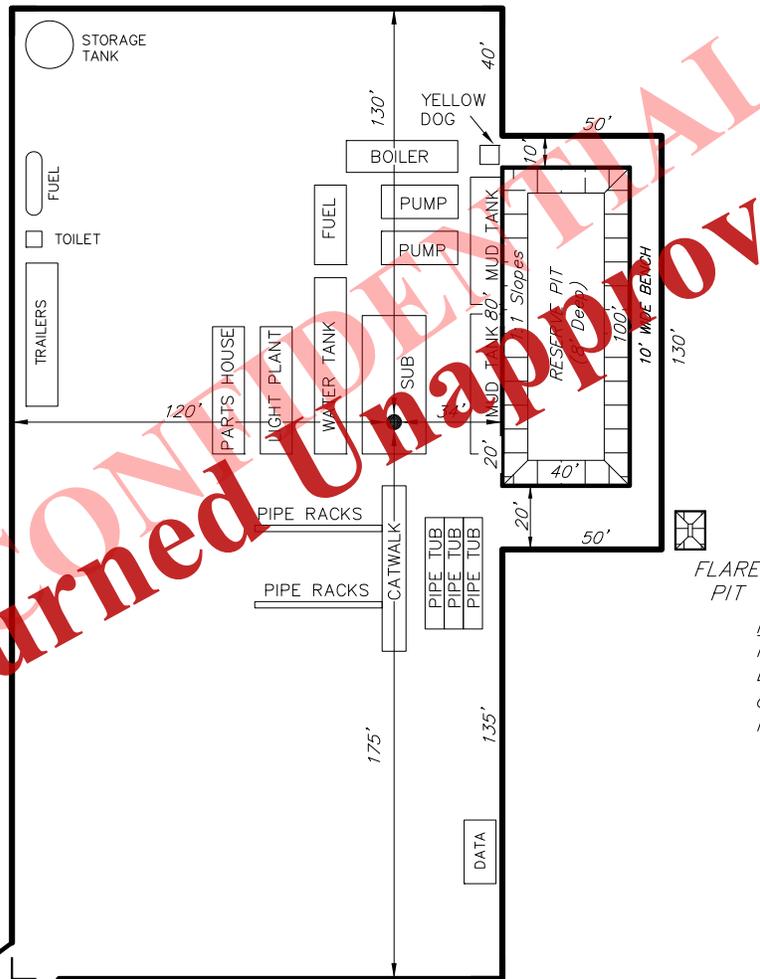
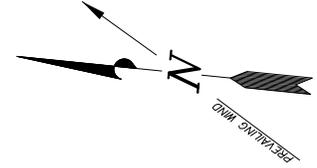
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Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# FINLEY RESOURCES INC.

## TYPICAL RIG LAYOUT

26-12A-4-2

Pad Location: NWSW Section 26, T4S, R2E, U.S.B.&M.



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

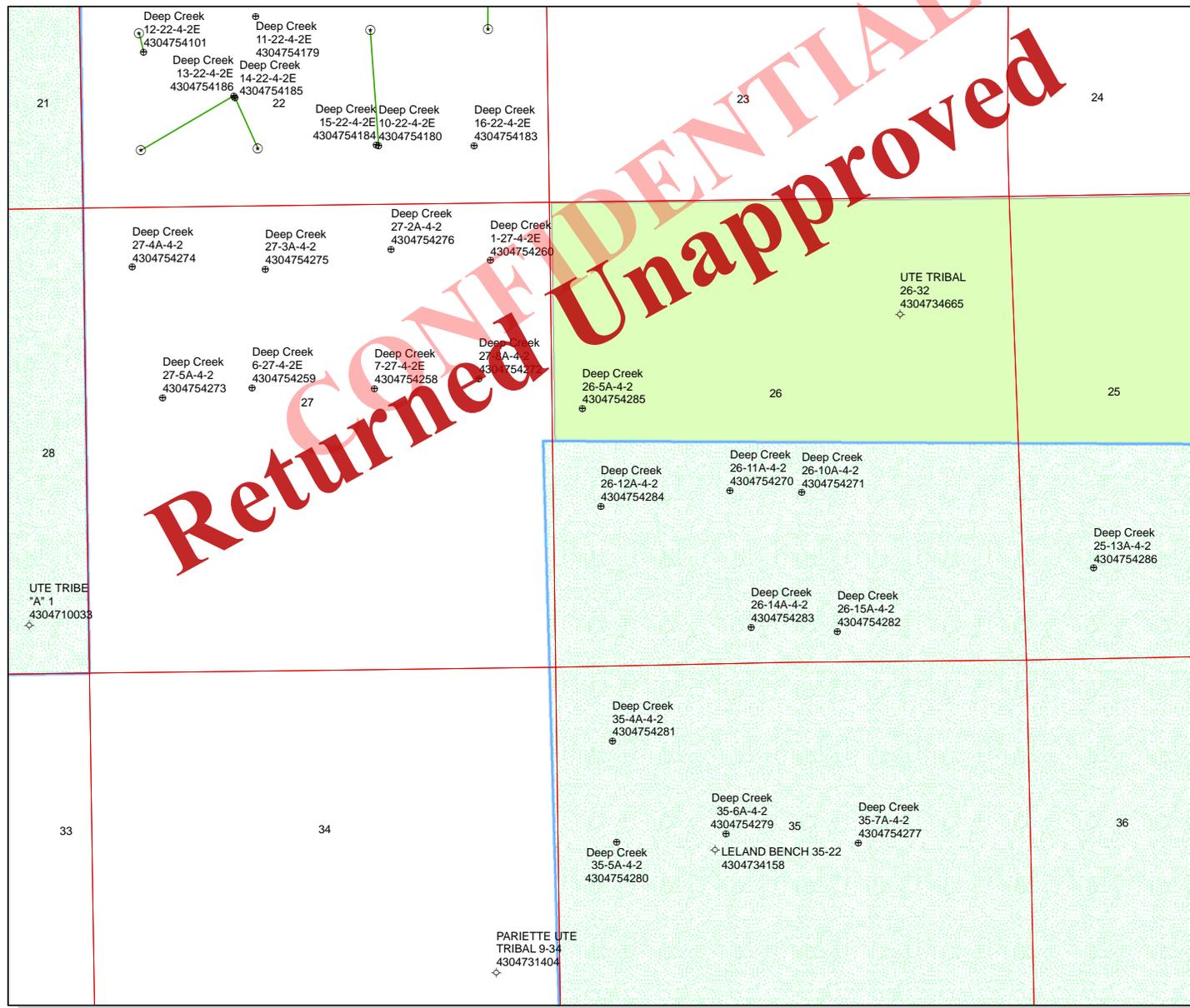
PROPOSED ACCESS  
ROAD (Max. 6% Grade)

SURVEYED BY:	G.D.O.	DATE SURVEYED:	01-23-14
DRAWN BY:	L.K.	DATE DRAWN:	01-24-13
SCALE:	1" = 60'	REVISED:	L.K. 03-26-14

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

**Received: April 21, 2014**

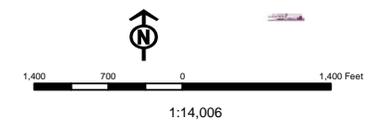
CONFIDENTIAL  
Returned Unapproved



**API Number: 4304754284**  
**Well Name: Deep Creek 26-12A-4-2**  
 Township: T04.0S Range: R02.0E Section: 26 Meridian: U  
 Operator: FINLEY RESOURCES INC

Map Prepared: 2/6/2014  
 Map Produced by Diana Mason

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



Well Name	FINLEY RESOURCES INC Deep Creek 26-12A-4-2 43047542840000			
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

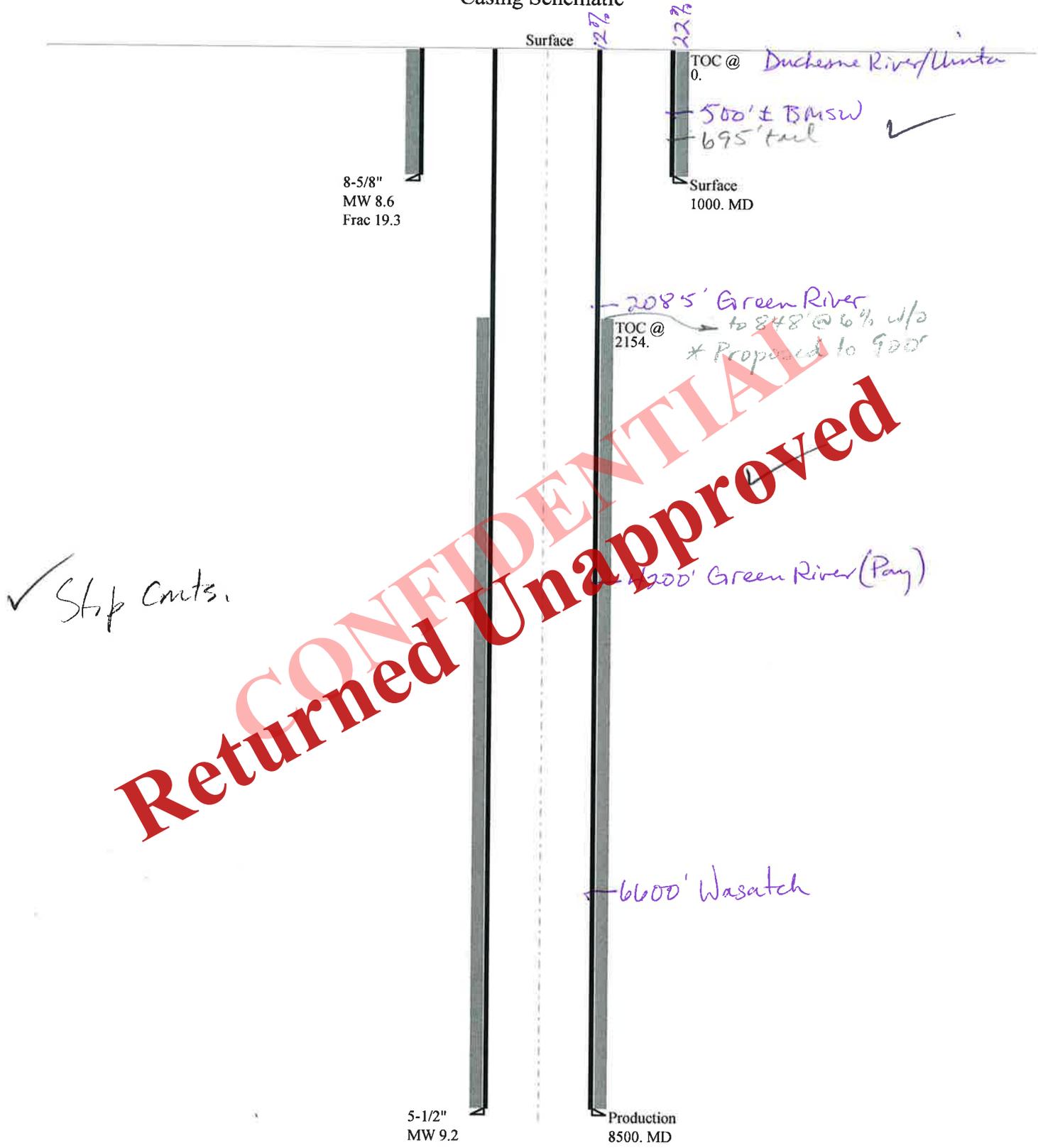
Calculations	PROD String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	4066	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3046	YES 5M BOP, two ram preventers, annular preventer, choke
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2196	YES 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

Returned Unapproved

43047542840000 Deep Creek 26-12A-4-2

Casing Schematic



**Returned Unapproved**

✓ Stop cuts.

Well name:	<b>4304754284000 Deep Creek 26-12A-4-2</b>		Project ID:
Operator:	<b>FINLEY RESOURCES INC</b>		43-047-54284
String type:	Surface		
Location:	UINTAH COUNTY		

**Design parameters:**

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

**Minimum design factors:**

**Collapse:**  
 Design factor 1.125

**Environment:**

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

**Burst:**  
 Design factor 1.00

Cement top: Surface

**Burst**

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

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

**Non-directional string.**

**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

No backup mud specified.

Tension is based on buoyed weight  
 Neutral point: 872 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	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	44	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 15, 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:	<b>4304754284000 Deep Creek 26-12A-4-2</b>		Project ID:
Operator:	<b>FINLEY RESOURCES INC</b>		43-047-54284
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

**Burst:**

Design factor 1.00

**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  
 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	30012
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	3576	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 15, 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 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**



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 26-12A-4-2 well, API 43047542840000 that was submitted February 03, 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



