FORM 3

AMENDED REPORT ☐

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

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
Horseshoe Bend 33-15A-6-21

2. TYPE OF WORK
DRILL NEW WELL ☒ REENTER P&A WELL ☐ DEEPEN WELL ☐

3. FIELD OR WILDCAT
HORSESHOE BEND

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)
UTU-89976

11. MINERAL OWNERSHIP
FEDERAL ☒ INDIAN ☐ STATE ☐ FEE ☐

12. SURFACE OWNERSHIP
FEDERAL ☒ INDIAN ☐ STATE ☐ FEE ☐

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')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ☐ (Submit Commingling Application) NO ☒

19. SLANT
VERTICAL ☐ DIRECTIONAL ☒ HORIZONTAL ☐

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	221 FSL 1907 FEL	SWSE	33	6.0 S	21.0 E	S
Top of Uppermost Producing Zone	905 FSL 1800 FEL	SWSE	33	6.0 S	21.0 E	S
At Total Depth	905 FSL 1800 FEL	SWSE	33	6.0 S	21.0 E	S

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
221

23. NUMBER OF ACRES IN DRILLING UNIT
40

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
20

26. PROPOSED DEPTH
MD: 8242 TVD: 8155

27. ELEVATION - GROUND LEVEL
4940

28. BOND NUMBER
UTB000305

29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE
43-8496

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 - 1000	24.0	J-55 ST&C	8.6	Class G	502	1.15	15.8
							Class G	212	1.17	15.8
Prod	7.875	5.5	0 - 8242	15.5	J-55 LT&C	9.2	Unknown	245	3.1	11.0
							Unknown	489	2.1	13.0

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

- ☒ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ☒ COMPLETE DRILLING PLAN
- ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ☒ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ☒ TOPOGRAPHICAL MAP

NAME Don Hamilton	**TITLE** Permitting Agent (Star Point Enterprises, Inc.)	**PHONE** 435 650-3866
SIGNATURE	**DATE** 03/05/2015	**EMAIL** starpoint@etv.net

API NUMBER ASSIGNED 43047552680000 **APPROVAL**

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Received: March 12, 2015

Finley Resources, Inc.
Horseshoe Bend 33-15A-6-21
SWSE, Sec. 33, T6S, R21E, SLB&M
Uintah County, UT

Drilling Program

1. Formation Tops

	MD	TVD
Uintah FM	Surface	Surface
Green River	3,840'	3,758'
Mahogany Bench Mk	5,198'	5,111'
Garden Gulch Mkr	6,345'	6,258'
Douglas Creek	6,717'	6,630'
Black Shale Mkr	6,796'	6,709'
Castle Peak	6,887'	6,800'
Wasatch	7,242'	7,155'
TD	8,242'	8,155'

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

Uintah FM	Surface - 3,840'	(Oil)
Wasatch	7,242' - 8,242'	(Oil)

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

3. Pressure Control

Section	BOP Description
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 3M system. A 3M 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 3,000 psi will be used.

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4. Casing

Description	Interval (MD)		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'	24	J-55	STC	8.33	8.6	11	2,950	1,370	244,000
									5.80	4.12	10.17
Production 5 1/2	0'	8,242'	15.5	J-55	LTC	9	9.2	11	4,810	4,040	217,000
									1.59	1.30	1.70

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.

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5. Cement

Job	Hole Size	Fill	Slurry Description	ft^3 / sacks	OH excess	Weight (ppg)	Yield (ft^3/sk)
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'	Class G w/ 2% KCl + 0.25 lbs/sk Flocele	578	100%	15.8	1.15
				502			
Surface Tail	12 1/4	300'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	248	100%	15.8	1.17
				212			
Production Lead	7 7/8	3,500'	Econocem-1# granulite+.25# polyflake	758	25%	11.0	3.10
				245			
Production Tail	7 7/8	4,742'	Econocem- .95%bw HR-5+.125# polyflake	1027	25%	13.0	2.10
				489			

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.

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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 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.

8,242' x 0.47 psi/ft = 3857 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

This is planned as a directional well.

Based on prior drilling experience in the area, Finley Resources is confident that the 5 1/2" 15.5# production casing 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:

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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.

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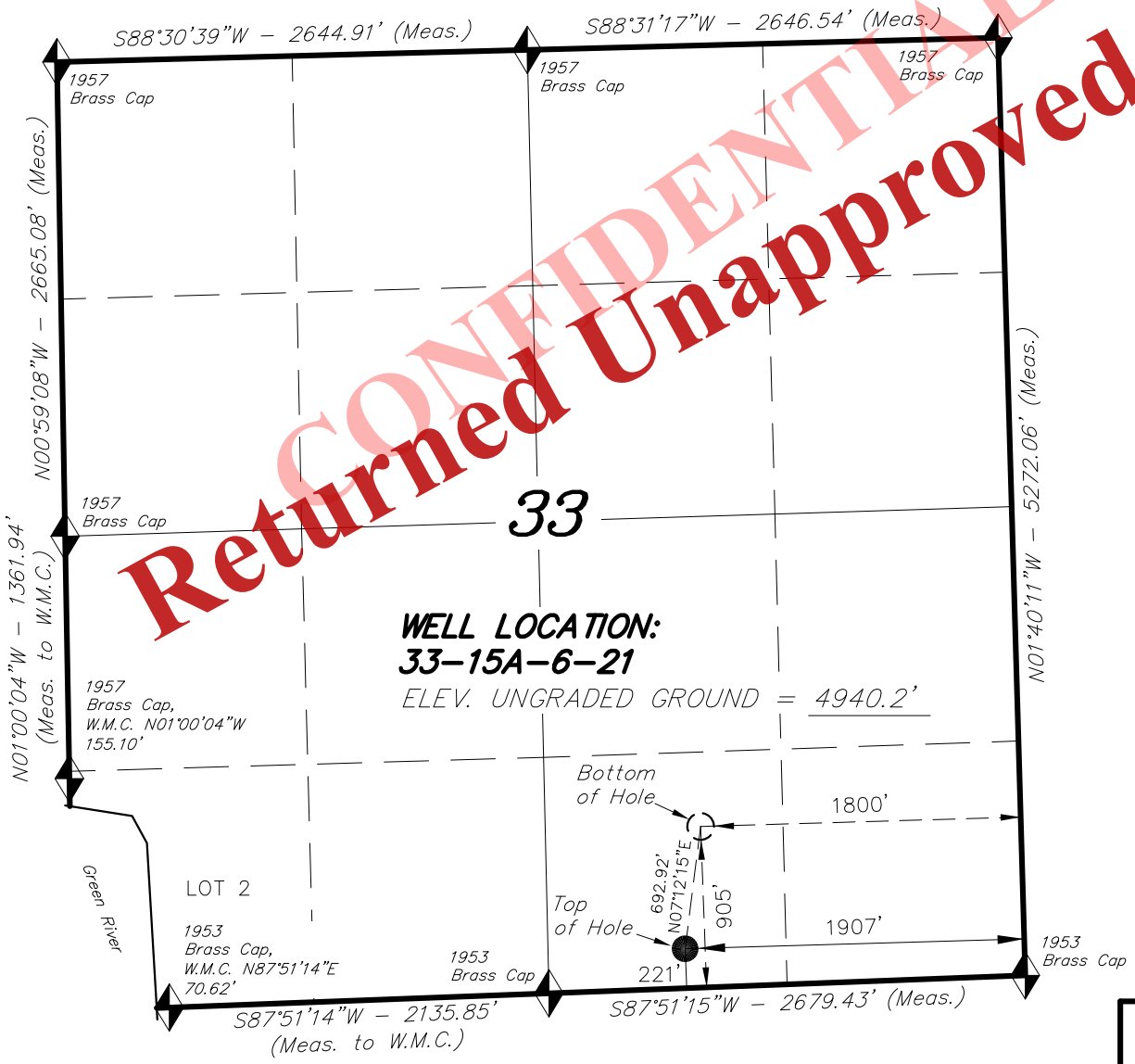
Received: March 05, 2015

T6S, R21E, S.L.B.&M.

FINLEY RESOURCES INC.



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WELL LOCATION, 33-15A-6-21, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 33, T6S, R21E, S.L.B.&M. UINTAH COUNTY, UTAH.

TARGET BOTTOM HOLE, 33-15A-6-21, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 33, T6S, R21E, S.L.B.&M. UINTAH COUNTY, UTAH.

1000' 500' 0' 1000'

BAR SCALE

N

NOTES:

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

◆ = SECTION CORNERS LOCATED

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.

REGISTERED LAND SURVEYOR No.189377 12-30-14 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

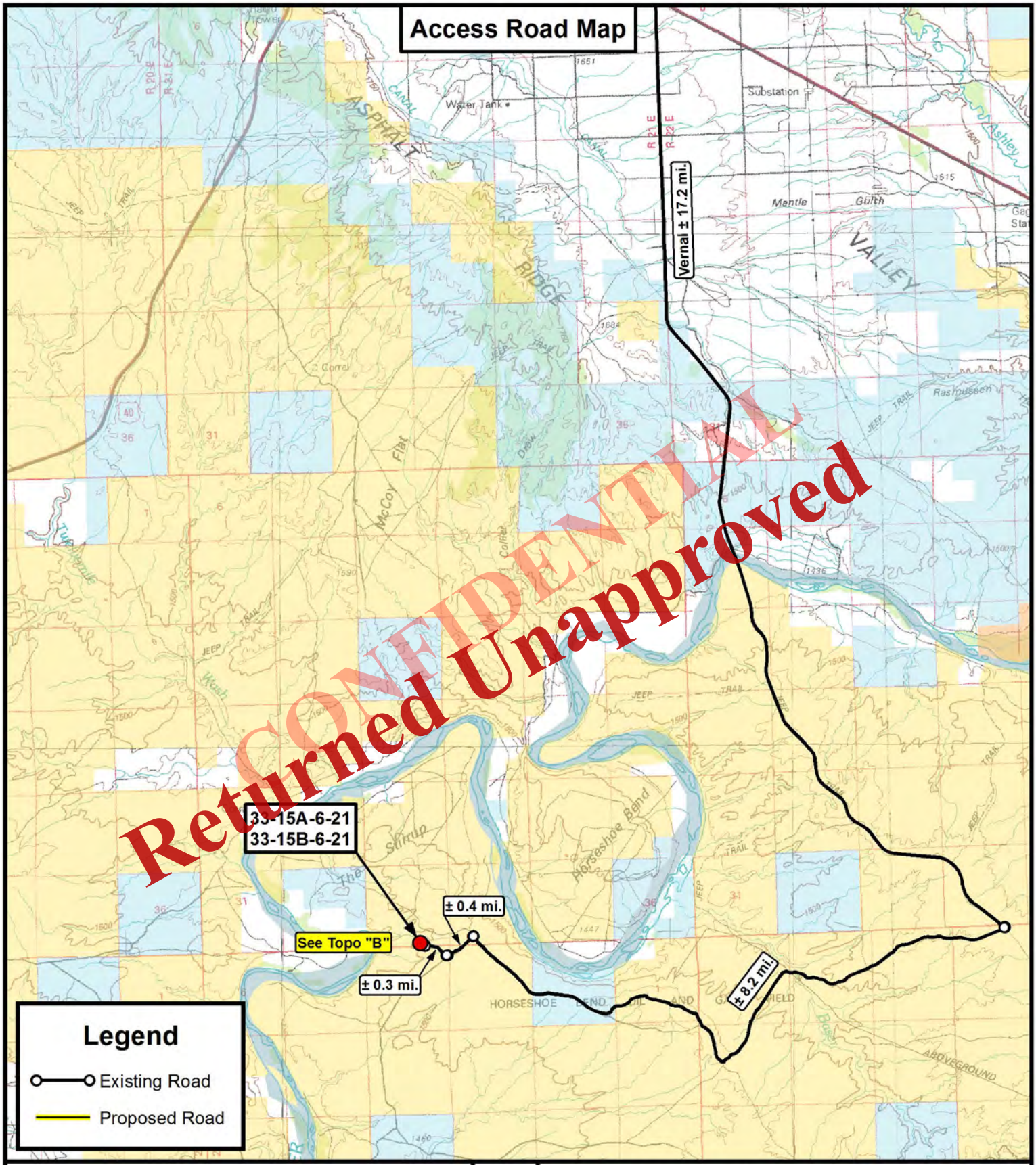
BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

NAD 83 (SURFACE LOCATION)
LATITUDE = 40°14'55.38"
LONGITUDE = 109°33'28.57"
NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 40°15'02.15"
LONGITUDE = 109°33'27.26"

TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. – VERNAL, UTAH 84078
(435) 781-2501

DATE SURVEYED: 12-29-14	SURVEYED BY: C.S.
DATE DRAWN: 04-07-14	DRAWN BY: V.H.
REVISED: 12-30-14 M.W.	SCALE: 1" = 1000'

Received: March 05, 2015



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Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

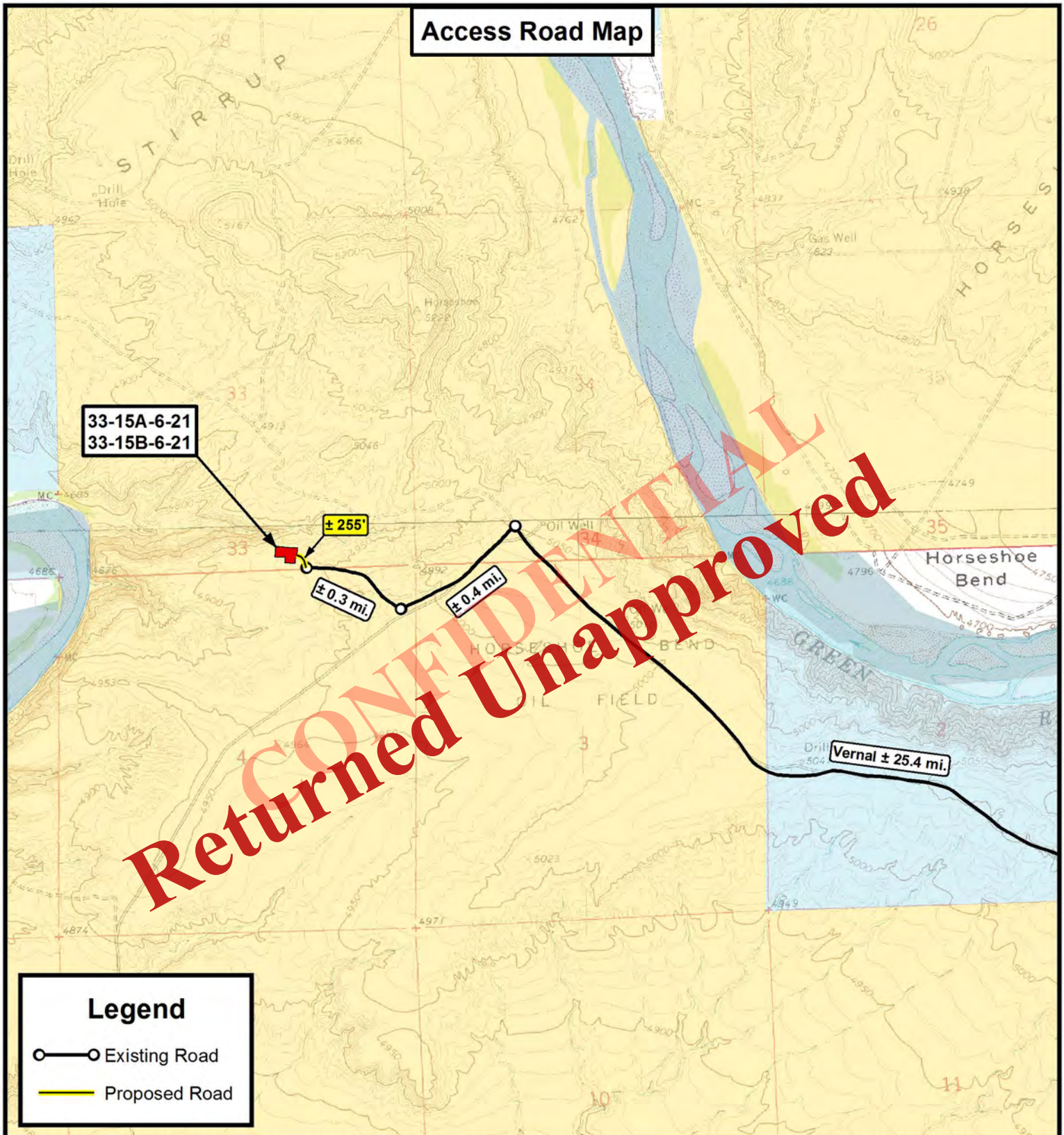
FINLEY RESOURCES INC.
33-15A-6-21
33-15B-6-21
Sec. 33, T6S, R21E, S.L.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	12-30-14 A.P.C.
DATE:	04-18-2014		
SCALE:	1:100,000		

TOPOGRAPHIC MAP

SHEET A

Received: March 05, 2015



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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N

FINLEY RESOURCES INC.

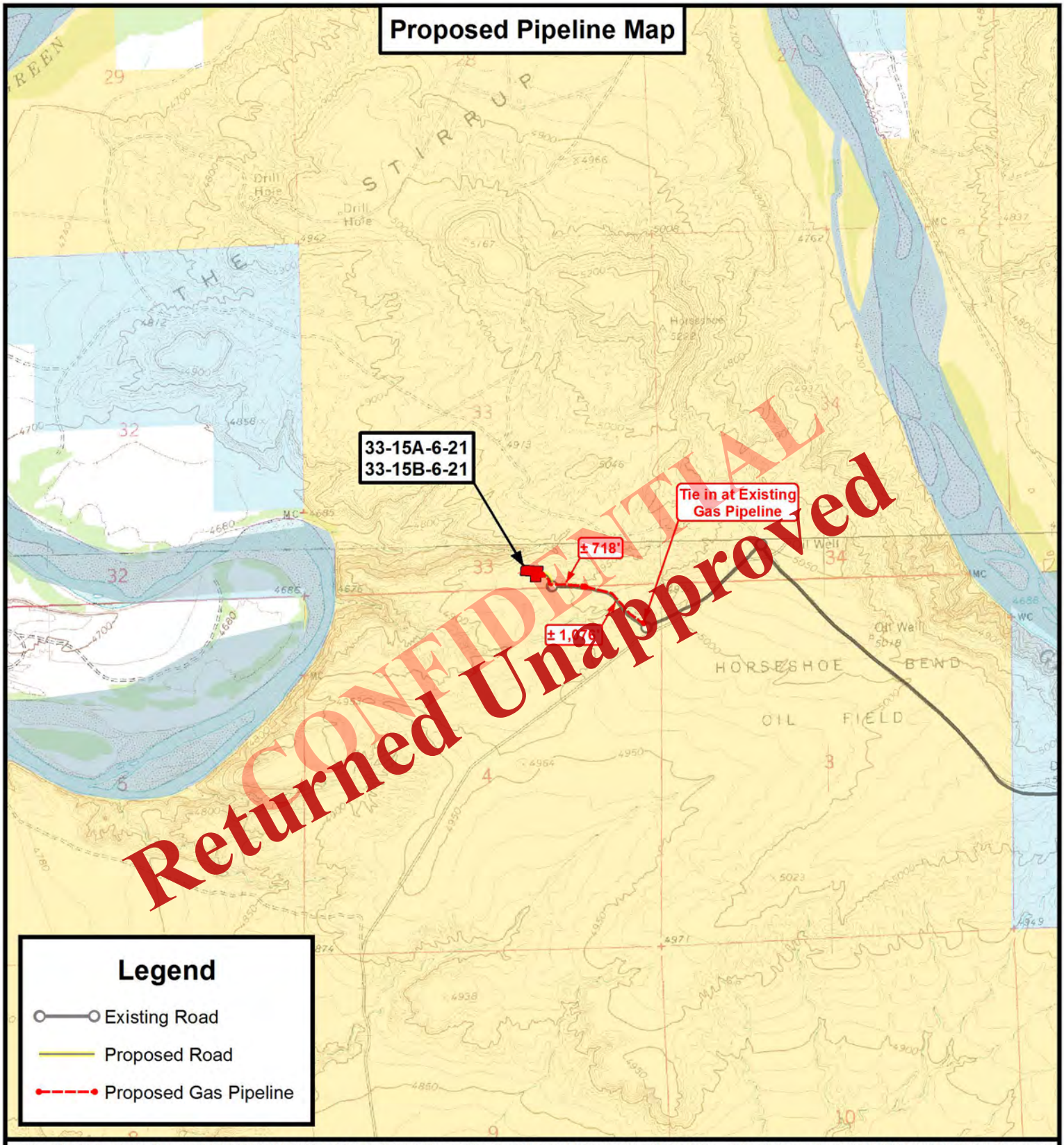
33-15A-6-21
33-15B-6-21
Sec. 33, T6S, R21E, S.L.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	12-30-14 A.P.C.
DATE:	04-18-2014		
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET B

Received: March 05, 2015



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F: (435) 781-2518

N

FINLEY RESOURCES INC.

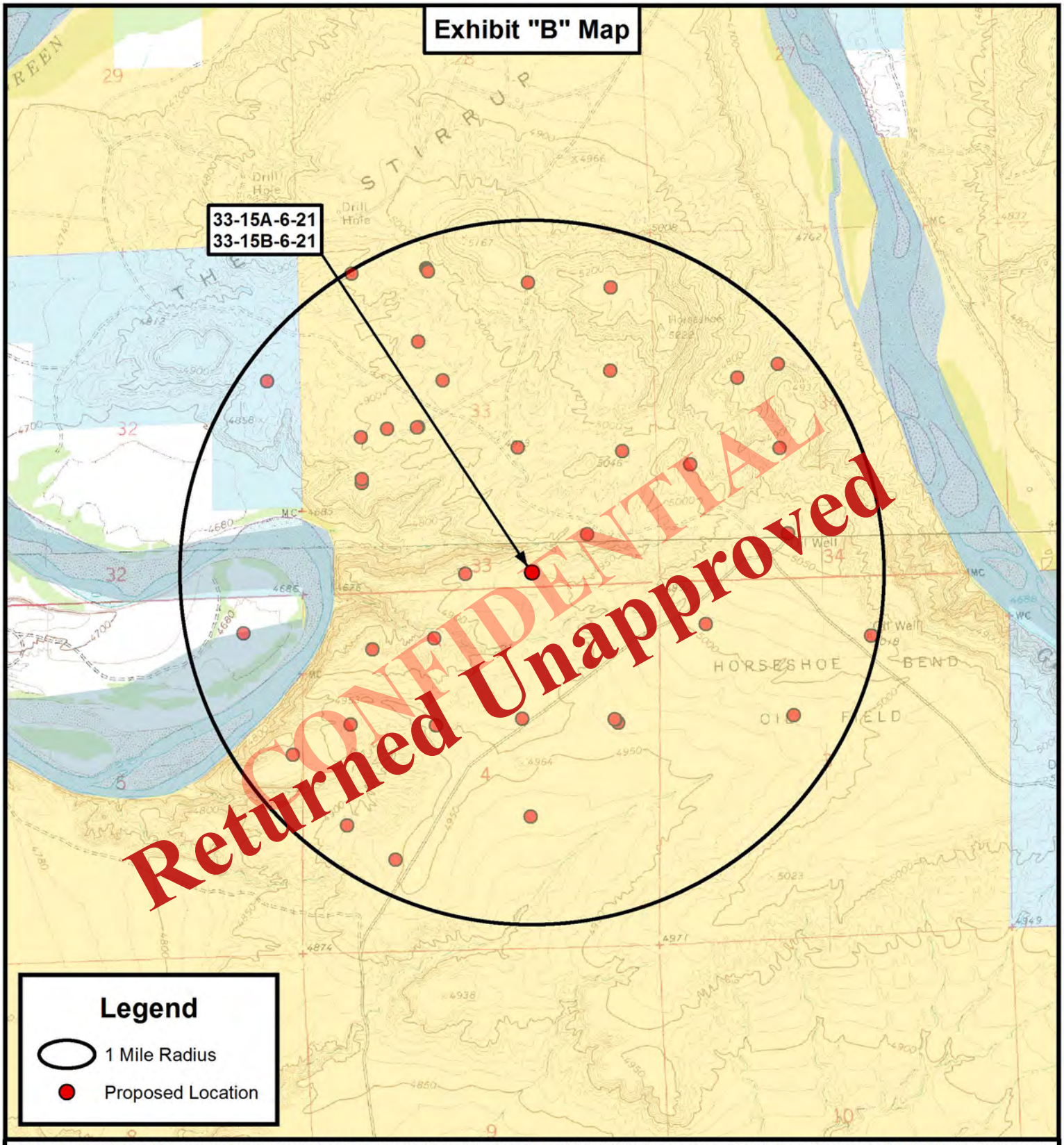
33-15A-6-21
33-15B-6-21
Sec. 33, T6S, R21E, S.L.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	12-30-14 A.P.C.
DATE:	04-18-2014		
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET C

Received: March 05, 2015



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N

FINLEY RESOURCES INC.
33-15A-6-21
33-15B-6-21
Sec. 33, T6S, R21E, S.L.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	12-30-14 A.P.C.
DATE:	04-18-2014		
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET D

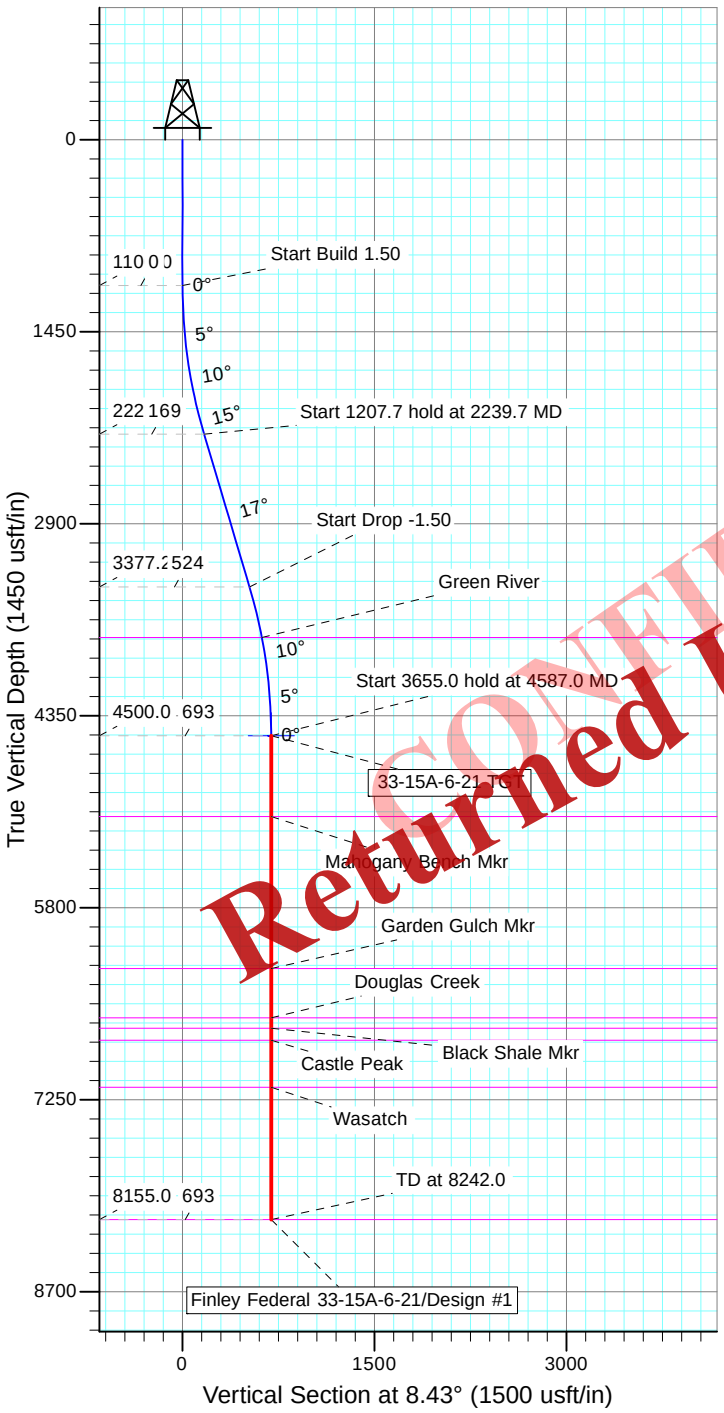
Received: March 05, 2015

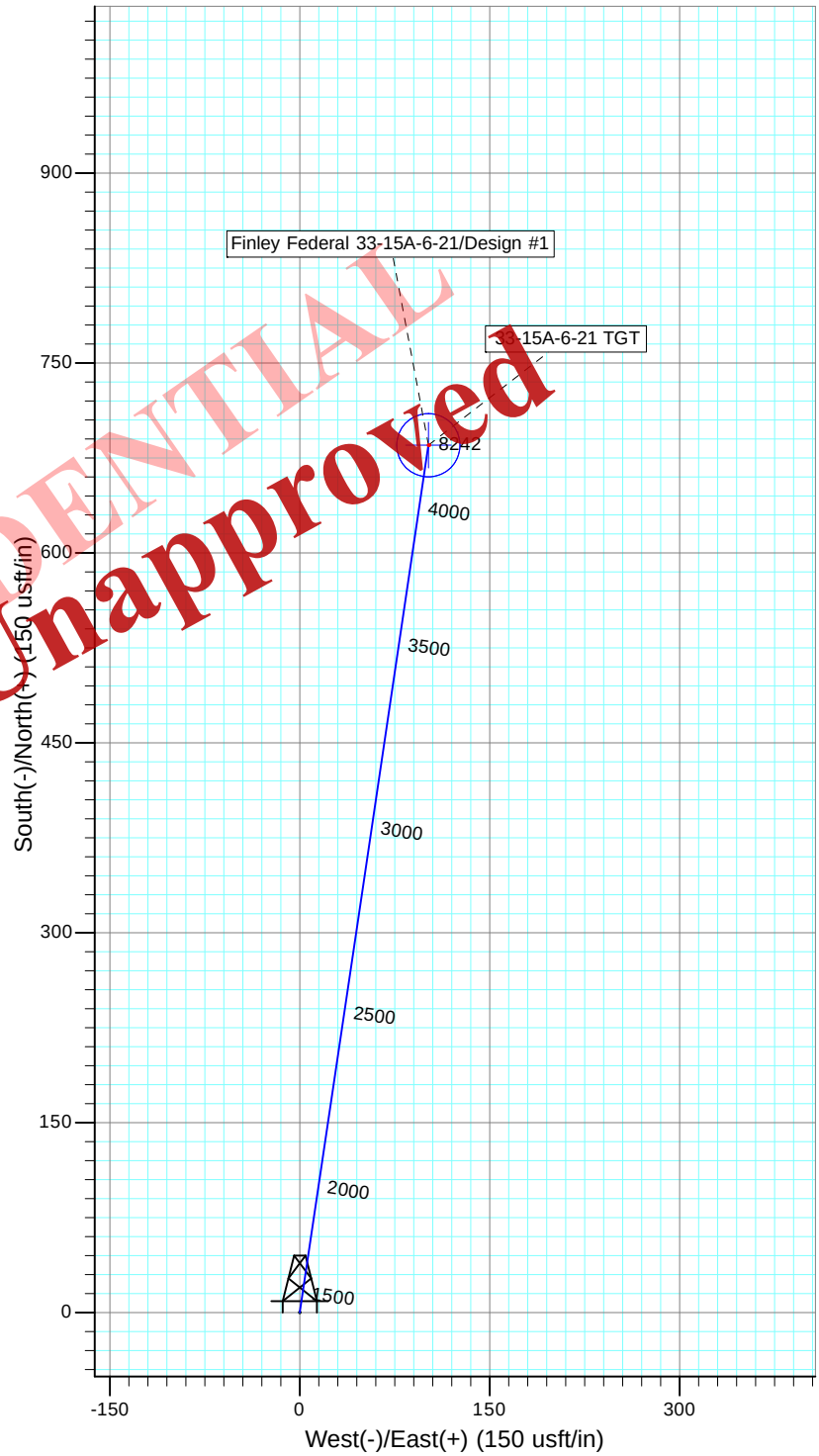
FINLEY resources
ACQUIRE » DEVELOP » SUCCEED

Project: Three Rivers
Site: SECTION 33 T6S, R21E
Well: Finley Federal 33-15A-6-21
Wellbore: Wellbore #1
Design: Design #1

T M
Azimuths to True North
Magnetic North: 10.66°

Magnetic Field
Strength: 52091.9snT
Dip Angle: 65.96°
Date: 2/11/2015
Model: IGRF2010





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WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
33-15A-6-21 TGT	4500.0	685.0	101.6	Circle (Radius: 25.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1100.0	0.00	0.00	1100.0	0.0	0.0	0.00	0.00	0.0	
3	2239.7	17.10	8.43	2222.8	166.9	24.8	1.50	8.43	168.8	
4	3447.3	17.10	8.43	3377.2	518.1	76.8	0.00	0.00	523.8	
5	4587.0	0.00	0.00	4500.0	685.0	101.6	1.50	180.00	692.5	33-15A-6-21 TGT
6	8242.0	0.00	0.00	8155.0	685.0	101.6	0.00	0.00	692.5	

PAYZONE DIRECTIONAL

Received: March 05, 2015

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Finley Federal 33-15A-6-21
Company:	Finley Resources Inc	**TVD Reference:**	Finley Federal 33-15A-6-21 @ 4950.0usft (PLAN KB)
Project:	Three Rivers	**MD Reference:**	Finley Federal 33-15A-6-21 @ 4950.0usft (PLAN KB)
Site:	SECTION 33 T6S, R21E	**North Reference:**	True
Well:	Finley Federal 33-15A-6-21	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project Three Rivers

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site SECTION 33 T6S, R21E

Site Position:		**Northing:**	7,269,762.96 usft	**Latitude:**	40° 15' 40.740 N
From:	Lat/Long	**Easting:**	2,180,862.48 usft	**Longitude:**	109° 33' 47.750 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	1.24 °

Well Finley Federal 33-15A-6-21, SHL: 40° 14' 55.380 -109° 33' 28.570

Well Position	**+N/-S**	-4,589.8 usft	**Northing:**	7,265,206.41 usft	**Latitude:**	40° 14' 55.380 N
	+E/-W	1,487.1 usft	**Easting:**	2,182,448.62 usft	**Longitude:**	109° 33' 28.570 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	4,950.0 usft	**Ground Level:**	4,937.0 usft

Wellbore Wellbore #1

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	2/11/2015	10.66	65.96	52,092

Design Design #1

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	8.43

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,239.7	17.10	8.43	2,222.8	166.9	24.8	1.50	1.50	0.00	8.43	
3,447.3	17.10	8.43	3,377.2	518.1	76.8	0.00	0.00	0.00	0.00	
4,587.0	0.00	0.00	4,500.0	685.0	101.6	1.50	-1.50	0.00	180.00	33-15A-6-21 TGT
8,242.0	0.00	0.00	8,155.0	685.0	101.6	0.00	0.00	0.00	0.00	

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Returned Unapproved

Received: March 05, 2015

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Finley Federal 33-15A-6-21
Company:	Finley Resources Inc	**TVD Reference:**	Finley Federal 33-15A-6-21 @ 4950.0usft (PLAN KB)
Project:	Three Rivers	**MD Reference:**	Finley Federal 33-15A-6-21 @ 4950.0usft (PLAN KB)
Site:	SECTION 33 T6S, R21E	**North Reference:**	True
Well:	Finley Federal 33-15A-6-21	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	1.50	8.43	1,200.0	1.3	0.2	1.3	1.50	1.50	0.00
1,300.0	3.00	8.43	1,299.9	5.2	0.8	5.2	1.50	1.50	0.00
1,400.0	4.50	8.43	1,399.7	11.6	1.7	11.8	1.50	1.50	0.00
1,500.0	6.00	8.43	1,499.3	20.7	3.1	20.9	1.50	1.50	0.00
1,600.0	7.50	8.43	1,598.6	32.3	4.8	32.7	1.50	1.50	0.00
1,700.0	9.00	8.43	1,697.5	46.5	6.9	47.0	1.50	1.50	0.00
1,800.0	10.50	8.43	1,796.1	63.3	9.4	64.0	1.50	1.50	0.00
1,900.0	12.00	8.43	1,894.2	82.6	12.2	83.5	1.50	1.50	0.00
2,000.0	13.50	8.43	1,991.7	104.4	15.5	105.5	1.50	1.50	0.00
2,100.0	15.00	8.43	2,088.6	128.7	19.1	130.2	1.50	1.50	0.00
2,200.0	16.50	8.43	2,184.9	155.6	23.1	157.3	1.50	1.50	0.00
2,239.7	17.10	8.43	2,222.8	166.9	24.8	168.8	1.50	1.50	0.00
2,300.0	17.10	8.43	2,280.5	184.5	27.4	186.5	0.00	0.00	0.00
2,400.0	17.10	8.43	2,376.1	213.6	31.7	215.9	0.00	0.00	0.00
2,500.0	17.10	8.43	2,471.7	242.6	36.0	245.3	0.00	0.00	0.00
2,600.0	17.10	8.43	2,567.2	271.7	40.3	274.7	0.00	0.00	0.00
2,700.0	17.10	8.43	2,662.8	300.8	44.6	304.1	0.00	0.00	0.00
2,800.0	17.10	8.43	2,758.4	329.9	48.9	333.5	0.00	0.00	0.00
2,900.0	17.10	8.43	2,854.0	358.9	53.2	362.9	0.00	0.00	0.00
3,000.0	17.10	8.43	2,949.6	388.0	57.5	392.3	0.00	0.00	0.00
3,100.0	17.10	8.43	3,045.2	417.1	61.8	421.7	0.00	0.00	0.00
3,200.0	17.10	8.43	3,140.7	446.2	66.2	451.1	0.00	0.00	0.00
3,300.0	17.10	8.43	3,236.3	475.3	70.5	480.5	0.00	0.00	0.00
3,400.0	17.10	8.43	3,331.9	504.3	74.8	509.9	0.00	0.00	0.00
3,447.3	17.10	8.43	3,377.2	518.1	76.8	523.8	0.00	0.00	0.00
3,500.0	16.31	8.43	3,427.6	533.1	79.0	538.9	1.50	-1.50	0.00
3,600.0	14.81	8.43	3,523.9	559.6	83.0	565.7	1.50	-1.50	0.00
3,700.0	13.31	8.43	3,620.9	583.6	86.5	590.0	1.50	-1.50	0.00
3,800.0	11.81	8.43	3,718.5	605.1	89.7	611.7	1.50	-1.50	0.00
3,840.3	11.20	8.43	3,758.0	613.1	90.9	619.8	1.50	-1.50	0.00
Green River									
3,900.0	10.31	8.43	3,816.7	624.1	92.5	630.9	1.50	-1.50	0.00
4,000.0	8.81	8.43	3,915.3	640.5	95.0	647.5	1.50	-1.50	0.00
4,100.0	7.31	8.43	4,014.3	654.4	97.0	661.5	1.50	-1.50	0.00
4,200.0	5.81	8.43	4,113.6	665.7	98.7	672.9	1.50	-1.50	0.00
4,300.0	4.31	8.43	4,213.2	674.4	100.0	681.8	1.50	-1.50	0.00
4,400.0	2.81	8.43	4,313.0	680.5	100.9	688.0	1.50	-1.50	0.00
4,500.0	1.31	8.43	4,413.0	684.1	101.4	691.5	1.50	-1.50	0.00
4,587.0	0.00	0.00	4,500.0	685.0	101.6	692.5	1.50	-1.50	0.00
4,600.0	0.00	0.00	4,513.0	685.0	101.6	692.5	0.00	0.00	0.00

CONFIDENTIAL
Returned Unapproved

Received: March 05, 2015

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Finley Federal 33-15A-6-21
Company:	Finley Resources Inc	**TVD Reference:**	Finley Federal 33-15A-6-21 @ 4950.0usft (PLAN KB)
Project:	Three Rivers	**MD Reference:**	Finley Federal 33-15A-6-21 @ 4950.0usft (PLAN KB)
Site:	SECTION 33 T6S, R21E	**North Reference:**	True
Well:	Finley Federal 33-15A-6-21	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
4,700.0	0.00	0.00	4,613.0	685.0	101.6	692.5	0.00	0.00	0.00
4,800.0	0.00	0.00	4,713.0	685.0	101.6	692.5	0.00	0.00	0.00
4,900.0	0.00	0.00	4,813.0	685.0	101.6	692.5	0.00	0.00	0.00
5,000.0	0.00	0.00	4,913.0	685.0	101.6	692.5	0.00	0.00	0.00
5,100.0	0.00	0.00	5,013.0	685.0	101.6	692.5	0.00	0.00	0.00
5,198.0	0.00	0.00	5,111.0	685.0	101.6	692.5	0.00	0.00	0.00
Mahogany Bench Mkr									
5,200.0	0.00	0.00	5,113.0	685.0	101.6	692.5	0.00	0.00	0.00
5,300.0	0.00	0.00	5,213.0	685.0	101.6	692.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,313.0	685.0	101.6	692.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,413.0	685.0	101.6	692.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,513.0	685.0	101.6	692.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,613.0	685.0	101.6	692.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,713.0	685.0	101.6	692.5	0.00	0.00	0.00
5,900.0	0.00	0.00	5,813.0	685.0	101.6	692.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,913.0	685.0	101.6	692.5	0.00	0.00	0.00
6,100.0	0.00	0.00	6,013.0	685.0	101.6	692.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,113.0	685.0	101.6	692.5	0.00	0.00	0.00
6,300.0	0.00	0.00	6,213.0	685.0	101.6	692.5	0.00	0.00	0.00
6,345.0	0.00	0.00	6,258.0	685.0	101.6	692.5	0.00	0.00	0.00
Garden Gulch Mkr									
6,400.0	0.00	0.00	6,313.0	685.0	101.6	692.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,413.0	685.0	101.6	692.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,513.0	685.0	101.6	692.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,613.0	685.0	101.6	692.5	0.00	0.00	0.00
6,717.0	0.00	0.00	6,630.0	685.0	101.6	692.5	0.00	0.00	0.00
Douglas Creek									
6,796.0	0.00	0.00	6,709.0	685.0	101.6	692.5	0.00	0.00	0.00
Black Shale Mkr									
6,800.0	0.00	0.00	6,713.0	685.0	101.6	692.5	0.00	0.00	0.00
6,887.0	0.00	0.00	6,800.0	685.0	101.6	692.5	0.00	0.00	0.00
Castle Peak									
6,900.0	0.00	0.00	6,813.0	685.0	101.6	692.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,913.0	685.0	101.6	692.5	0.00	0.00	0.00
7,100.0	0.00	0.00	7,013.0	685.0	101.6	692.5	0.00	0.00	0.00
7,200.0	0.00	0.00	7,113.0	685.0	101.6	692.5	0.00	0.00	0.00
7,242.0	0.00	0.00	7,155.0	685.0	101.6	692.5	0.00	0.00	0.00
Wasatch									
7,300.0	0.00	0.00	7,213.0	685.0	101.6	692.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,313.0	685.0	101.6	692.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,413.0	685.0	101.6	692.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,513.0	685.0	101.6	692.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,613.0	685.0	101.6	692.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,713.0	685.0	101.6	692.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,813.0	685.0	101.6	692.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,913.0	685.0	101.6	692.5	0.00	0.00	0.00
8,100.0	0.00	0.00	8,013.0	685.0	101.6	692.5	0.00	0.00	0.00
8,200.0	0.00	0.00	8,113.0	685.0	101.6	692.5	0.00	0.00	0.00
8,242.0	0.00	0.00	8,155.0	685.0	101.6	692.5	0.00	0.00	0.00
TD									

CONFIDENTIAL
Returned Unapproved

Received: March 05, 2015

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Finley Federal 33-15A-6-21
Company:	Finley Resources Inc	**TVD Reference:**	Finley Federal 33-15A-6-21 @ 4950.0usft (PLAN KB)
Project:	Three Rivers	**MD Reference:**	Finley Federal 33-15A-6-21 @ 4950.0usft (PLAN KB)
Site:	SECTION 33 T6S, R21E	**North Reference:**	True
Well:	Finley Federal 33-15A-6-21	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
33-15A-6-21 TGT - plan hits target center - Circle (radius 25.0)	0.00	0.00	4,500.0	685.0	101.6	7,265,893.50	2,182,535.29	40° 15' 2.150 N	109° 33' 27.260 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,840.3	3,758.0	Green River		0.00	
5,198.0	5,111.0	Mahogany Bench Mkr		0.00	
6,345.0	6,258.0	Garden Gulch Mkr		0.00	
6,717.0	6,630.0	Douglas Creek		0.00	
6,796.0	6,709.0	Black Shale Mkr		0.00	
6,887.0	6,800.0	Castle Peak		0.00	
7,242.0	7,155.0	Wasatch		0.00	
8,242.0	8,155.0	TD		0.00	

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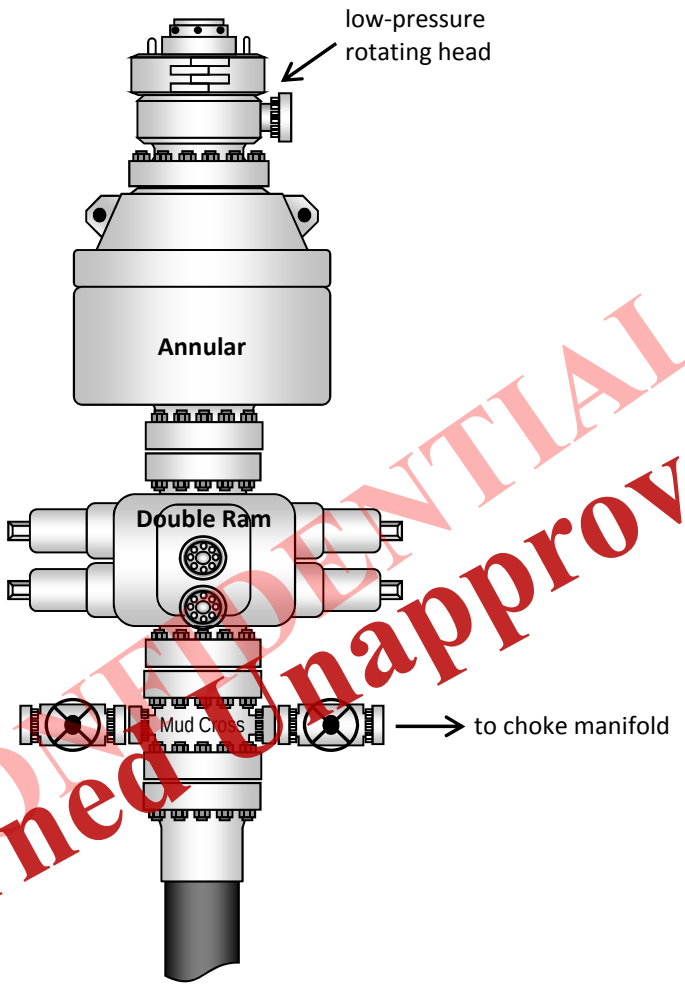
Typical 3M BOP stack configuration



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Received: March 05, 2015

FINLEY RESOURCES INC.

WELL PAD INTERFERENCE PLAT

33-15A-6-21
33-15B-6-21

Pad Location: SWSE Section 33, T6S, R21E, S.L.B.&M.

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N

TOP HOLE FOOTAGES

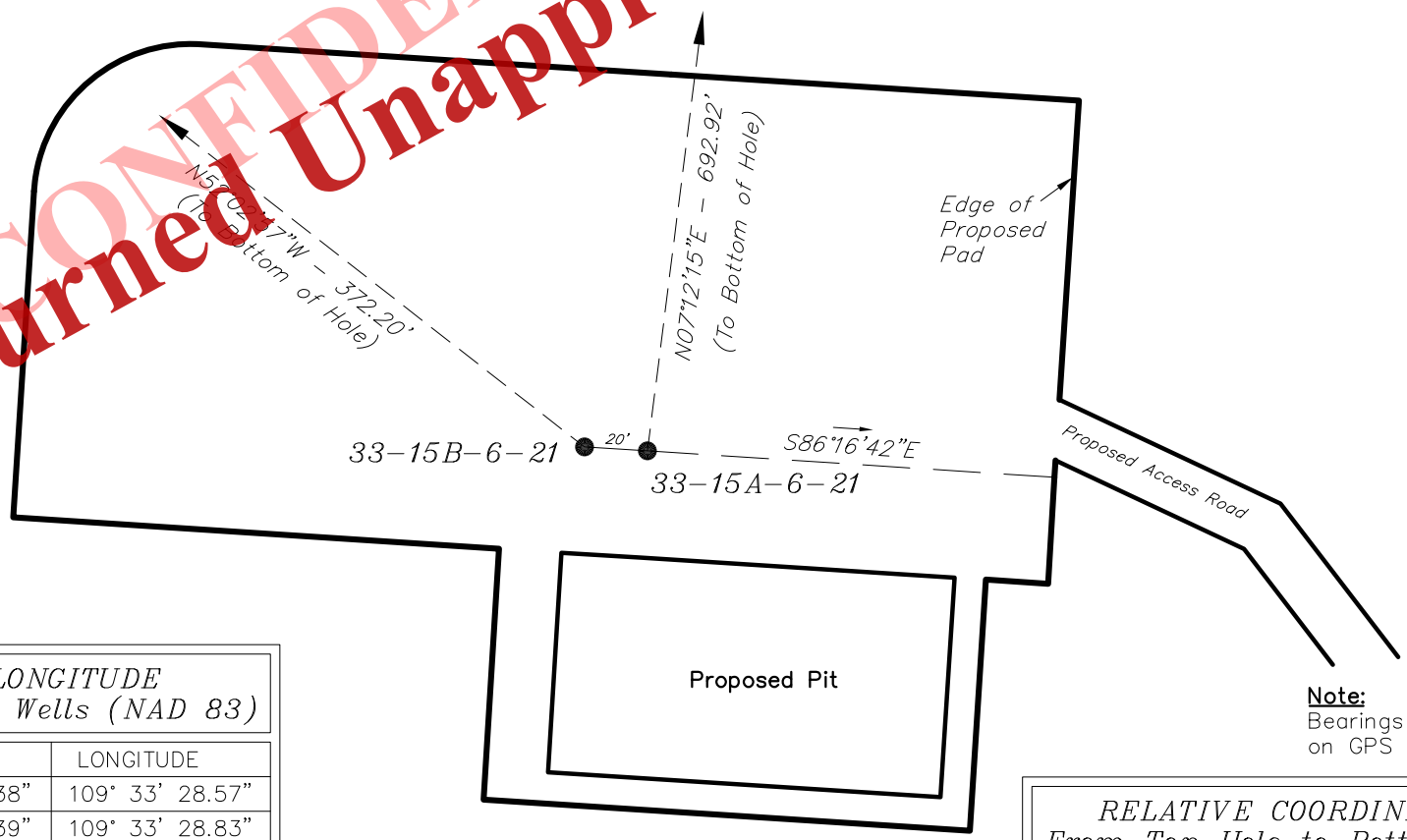
33-15A-6-21
221' FSL & 1907' FEL

33-15B-6-21
223' FSL & 1927' FEL

BOTTOM HOLE FOOTAGES

33-15A-6-21
905' FSL & 1290' FEL

33-15B-6-21
463' FSL & 2213' FEL



Note:
Bearings are based on GPS Observations.

LATITUDE & LONGITUDE
Surface Position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
33-15A-6-21	40° 14' 55.38"	109° 33' 28.57"
33-15B-6-21	40° 14' 55.39"	109° 33' 28.83"

LATITUDE & LONGITUDE
Bottom Hole Position (NAD 83)

WELL	LATITUDE	LONGITUDE
33-15A-6-21	40° 15' 02.15"	109° 33' 27.26"
33-15B-6-21	40° 14' 57.72"	109° 33' 32.55"

RELATIVE COORDINATES
From Top Hole to Bottom Hole

WELL	NORTH	EAST
33-15A-6-21	687'	87'
33-15B-6-21	229'	-293'

SURVEYED BY:	C.S.	DATE SURVEYED:	12-29-14
DRAWN BY:	M.W.	DATE DRAWN:	09-19-14
SCALE:	1" = 60'	REVISED: M.W.	12-30-14

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

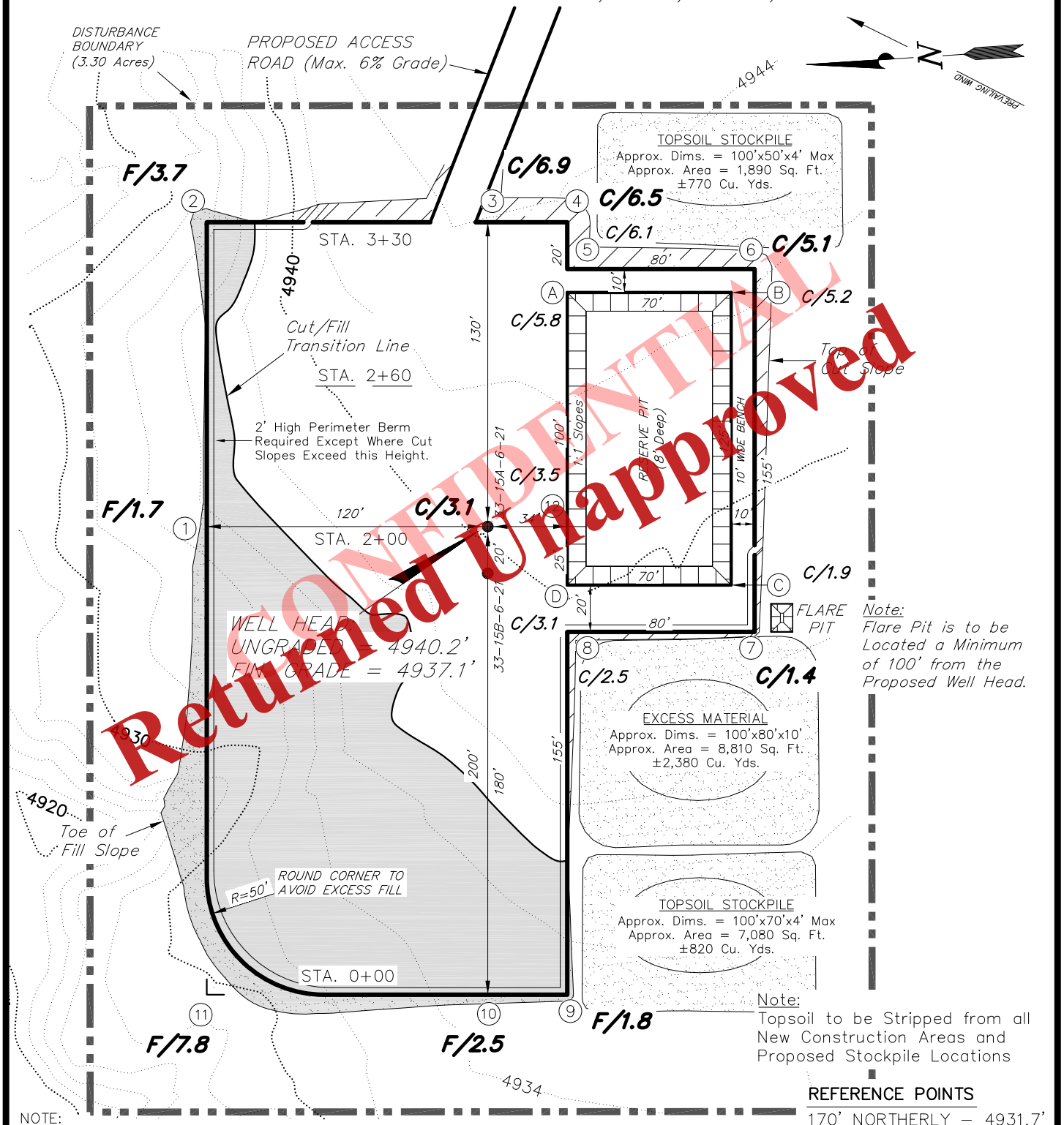
Received: March 05, 2015

FINLEY RESOURCES INC.

PROPOSED LOCATION LAYOUT

33–15A–6–21
33–15B–6–21

Pad Location: SWSE Section 33, T6S, R21E, S.L.B.&M.



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NOTE:
The topsoil & excess material areas are calculated as being mounds containing 3,970 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.

REFERENCE POINTS

170' NORTHERLY – 4931.7'
200' NORTHERLY – 4928.0'
225' WESTERLY – 4934.3'
250' WESTERLY – 4933.5'

SURVEYED BY:	C.S.	DATE SURVEYED:	12–29–14
DRAWN BY:	V.H.	DATE DRAWN:	04–07–14
SCALE:	1" = 60'	REVISED:	M.W. 12–30–14

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(435) 781–2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

Received: March 05, 2015

FINLEY RESOURCES INC.

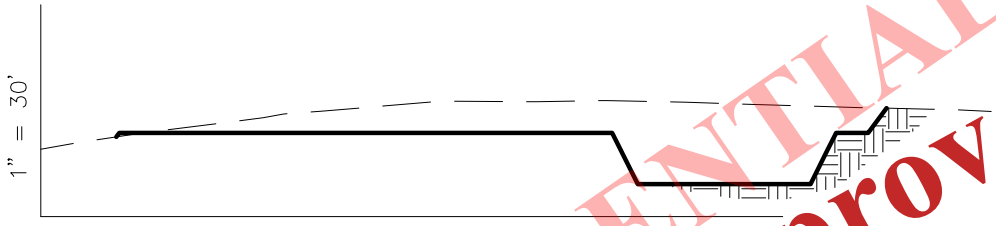
CROSS SECTIONS

33-15A-6-21
33-15B-6-21

Pad Location: SWSE Section 33, T6S, R21E, S.L.B.&M.

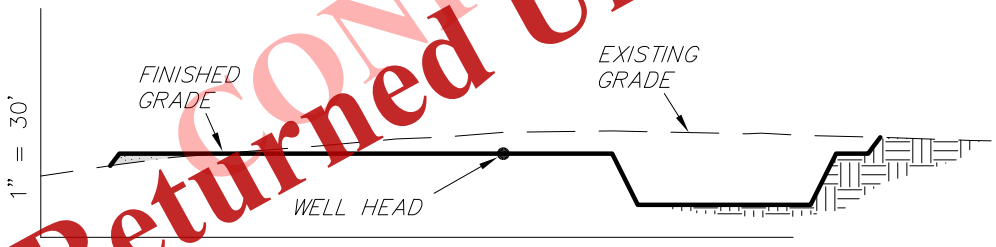
1" = 60'

STA. 3+30



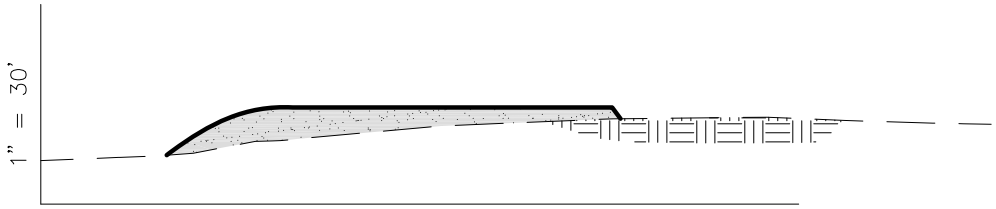
1" = 60'

STA. 2+60



1" = 60'

STA. 2+00



1" = 60'

STA. 0+00

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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	3,670	3,670	Topsoil is not included in Pad Cut Volume	0
PIT	2,160	0		2,160
TOTALS	5,830	3,670	1,450	2,160

SURVEYED BY:	C.S.	DATE SURVEYED:		12-29-14
DRAWN BY:	V.H.	DATE DRAWN:		04-07-14
SCALE:	1" = 60'	REVISED:	M.W.	12-30-14

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

Received: March 05, 2015

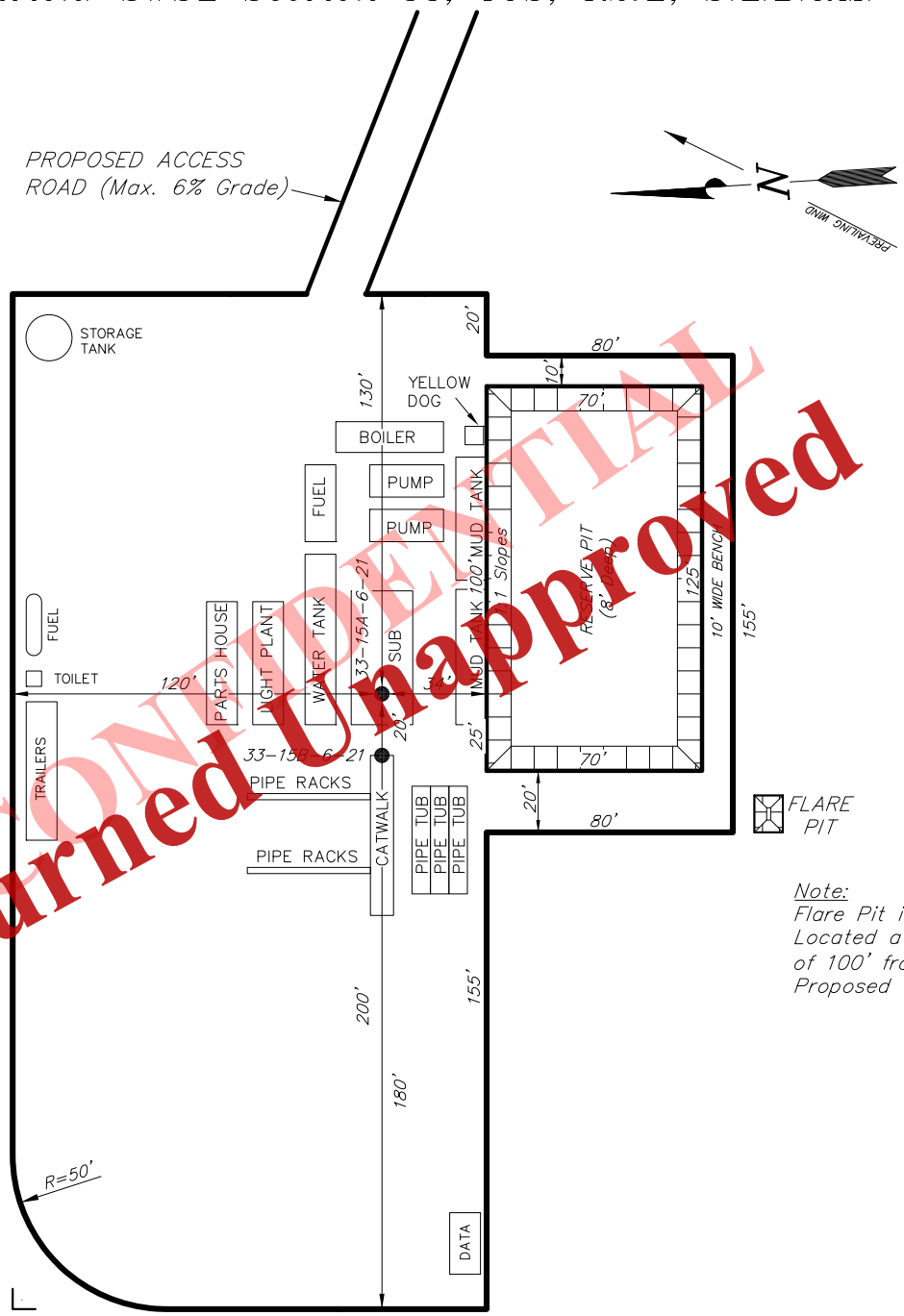
FINLEY RESOURCES INC.

TYPICAL RIG LAYOUT

33-15A-6-21

33-15B-6-21

Pad Location: SWSE Section 33, T6S, R21E, S.L.B.&M.



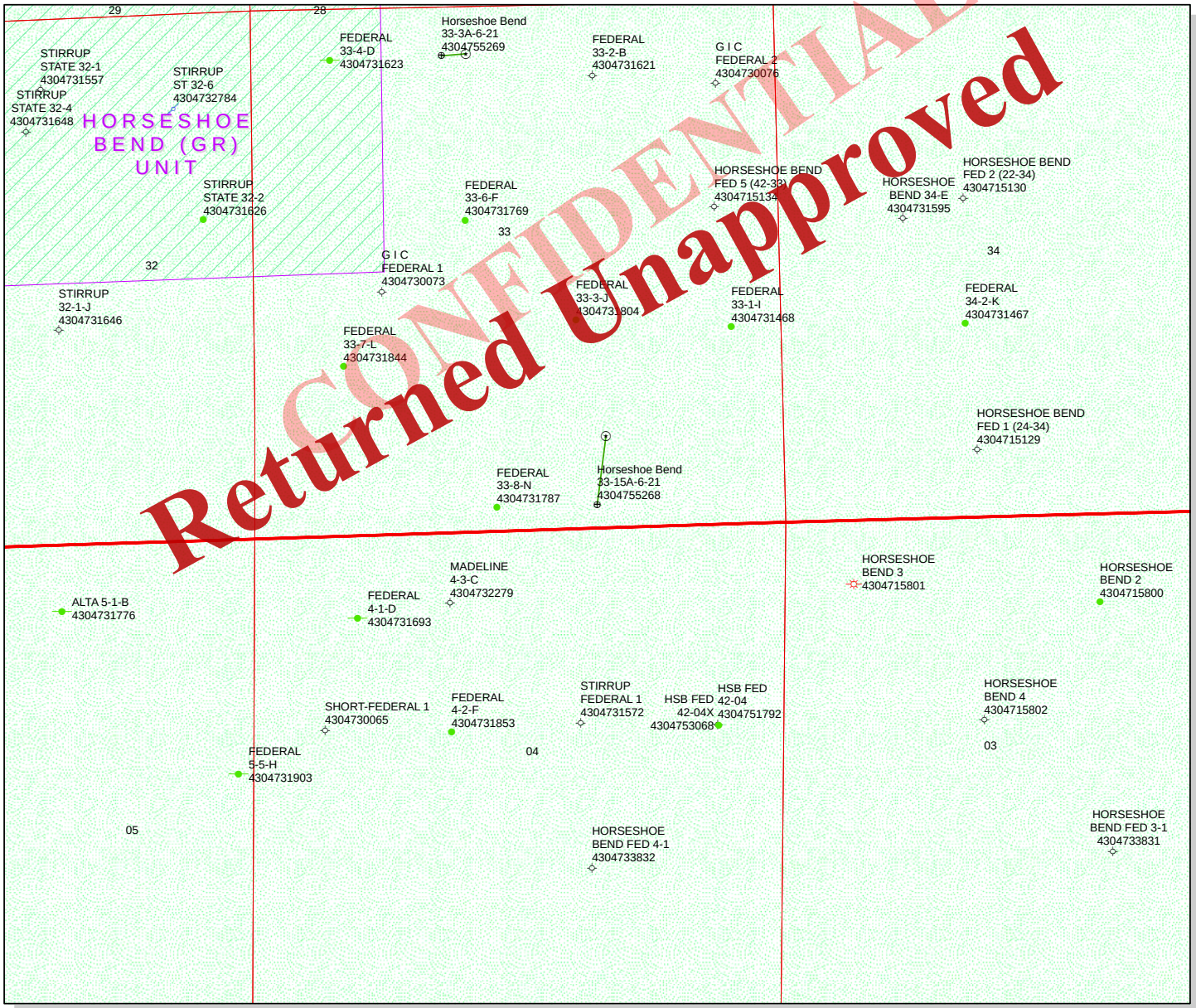
Note:
Flare Pit is to be Located a Minimum of 100' from the Proposed Well Head.

CONFIDENTIAL
Returned Unapproved

SURVEYED BY:	C.S.	DATE SURVEYED:		12-29-14
DRAWN BY:	V.H.	DATE DRAWN:		04-07-14
SCALE:	1" = 60'	REVISED:	M.W.	12-30-14

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

Received: March 05, 2015



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Returned Unapproved

API Number: 4304755268

Well Name: Horseshoe Bend 33-15A-6-21

Township: T06.0S Range: R21.0E Section: 33 Meridian: S

Operator: FINLEY RESOURCES, INC.

Map Prepared: 3/12/2015
Map Produced by Diana Mason

Wells Query

Status

- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - 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
- WIW - Water Injection Well
- WSW - Water Supply Well

Units

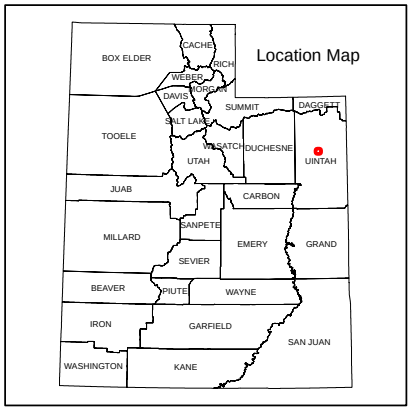
STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields

STATUS

- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED



1,250 625 0 1,250 Feet

1:12,470

Received: March 12, 2015

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

April 22, 2016

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 Horseshoe Bend 33-15A-6-21 well, API 43047552680000 that was submitted March 05, 2015 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

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
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