API Well Number: 43047544390000

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
Hackford 14-10A-4-2

2. TYPE OF WORK
DRILL NEW WELL ● REENTER P&A WELL ○ DEEPEN WELL ○

3. FIELD OR WILDCAT
WILDCAT

4. TYPE OF WELL
Oil Well Coalbed Methane Well: NO

5. UNIT or COMMUNITIZATION AGREEMENT NAME

6. NAME OF OPERATOR
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 ○ INDIAN ○ STATE ○ FEE ●

12. SURFACE OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ○ FEE ●

13. NAME OF SURFACE OWNER (if box 12 = 'fee')
Richard D. & Akiko Hackford

14. SURFACE OWNER PHONE (if box 12 = 'fee')
435-247-2405

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')
P.O. Box 153, LaPoint, UT 84039

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	1586 FSL 1791 FEL	NWSE	14	4.0 S	2.0 E	U
Top of Uppermost Producing Zone	1876 FSL 1945 FEL	NWSE	14	4.0 S	2.0 E	U
At Total Depth	1876 FSL 1945 FEL	NWSE	14	4.0 S	2.0 E	U

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
1586

23. NUMBER OF ACRES IN DRILLING UNIT
40

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
1265

26. PROPOSED DEPTH
MD: 8017 TVD: 8000

27. ELEVATION - GROUND LEVEL
4684

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 - 800	24.0	J-55 ST&C	8.6	Class G	359	1.15	15.8
							Class G	335	1.17	15.8
PROD	7.875	5.5	0 - 8017	17.0	N-80 LT&C	9.2	OTHER	245	3.1	11.0
							OTHER	910	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** 05/19/2014	**EMAIL** starpoint@etv.net

API NUMBER ASSIGNED
43047544390000

APPROVAL

Permit Manager

CONFIDENTIAL

RECEIVED: August 19, 2014

Finley Resources, Inc.
Hackford 14-10A-4-2
NW/4 SE/4, Sec 14, T4S, R2E, U.S.B.&M.
Uintah County, UT

Drilling Program

1. Formation Tops

	TVD	MD
Duchesne River	Surface	Surface
Green River (Top)	2,200'	2,200'
Green River (Pay)	4,200'	4,217'
Wasatch	6,600'	6,617'
TD	8,017'	8017'

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

Green River (Pay)	4,200' - 6,600'	(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

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.

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	0'	60'	48	H-40	STC	--	--	--	1,730	770	322,000
13 3/8									--	--	--
Surface	0'	800'	24	J-55	STC	8.33	8.6	11	2,950	1,370	244,000
8 5/8									7.24	5.16	12.71
Production	0'	8,017'	17	N-80	LTC	9	9.2	11	7,740	6,280	348,000
5 1/2									2.62	2.07	2.55

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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^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 / 41	15%	15.8	1.17
Surface Lead	12 1/4	500'	Class G w/ 2% KCl + 0.25 lbs/sk Flocele	413 / 359	100%	15.8	1.15
Surface Tail	12 1/4	300'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	392 / 335	100%	15.8	1.17
Production Lead	7 7/8	3,500'	Econocem-1# granulite+.25# polyflake	758 / 245	25%	11.0	3.10
Production Tail	7 7/8	4,517'	Econocem- .95%bw HR-5+.125# polyflake	1910 / 910	25%	13.0	2.10

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 - 800'	An air and/or fresh water system will be utilized.
800' - 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.

RECEIVED: August 08, 2014

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.

8,017' x 0.47 psi/ft = 3752 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

This is planned as a vertical we

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.

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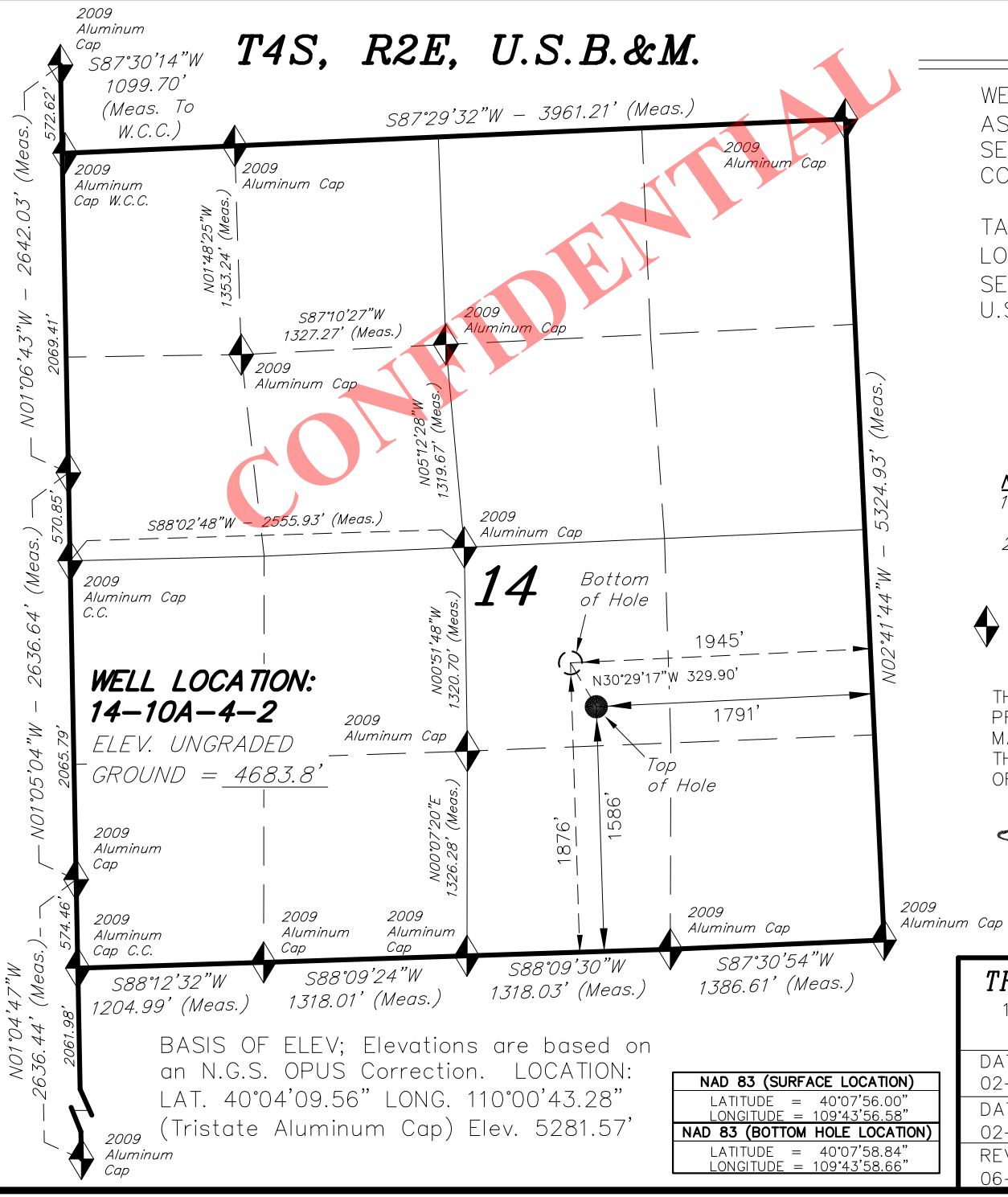
RECEIVED: August 08, 2014

API Well Number: 43047544390000

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

FINLEY RESOURCES INC.



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WELL LOCATION, 14-10A-4-2, LOCATED AS SHOWN IN THE NW 1/4 SE 1/4 OF SECTION 14, T4S, R2E, U.S.B.&M. UINTAH COUNTY, UTAH.

TARGET BOTTOM HOLE, 14-10A-4-2, LOCATED AS SHOWN IN THE NW 1/4 SE 1/4 OF SECTION 14, T4S, R2E, U.S.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 06-11-14 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'

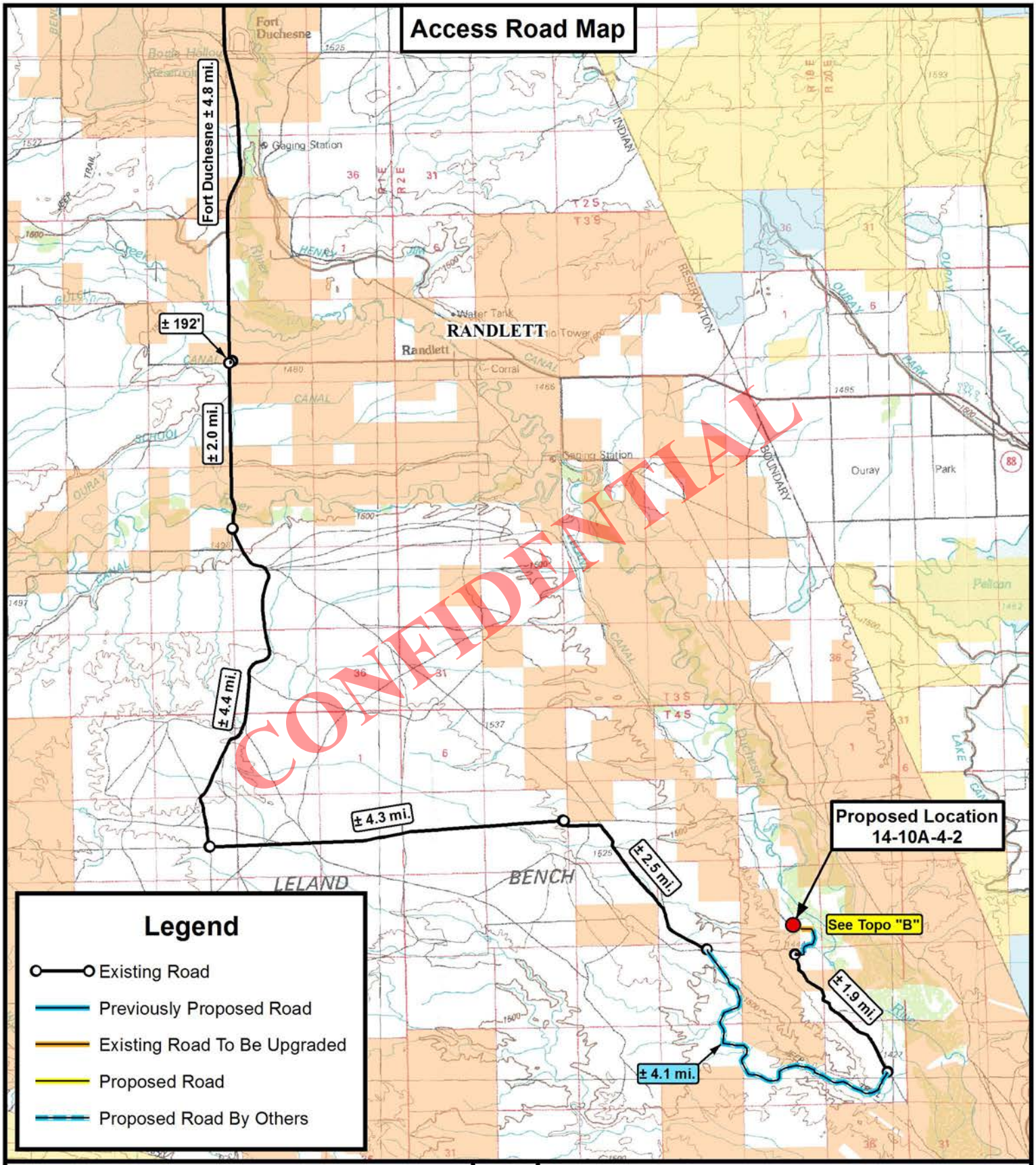
NAD 83 (SURFACE LOCATION)
LATITUDE = 40°07'56.00"
LONGITUDE = 109°43'56.58"
NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 40°07'58.84"
LONGITUDE = 109°43'58.66"

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

DATE SURVEYED: 02-10-14	SURVEYED BY: M.C.
DATE DRAWN: 02-11-14	DRAWN BY: M.W.
REVISED: 06-11-14 M.W.	SCALE: 1" = 1000'

RECEIVED: June 23, 2014

API Well Number: 43047544390000



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

N

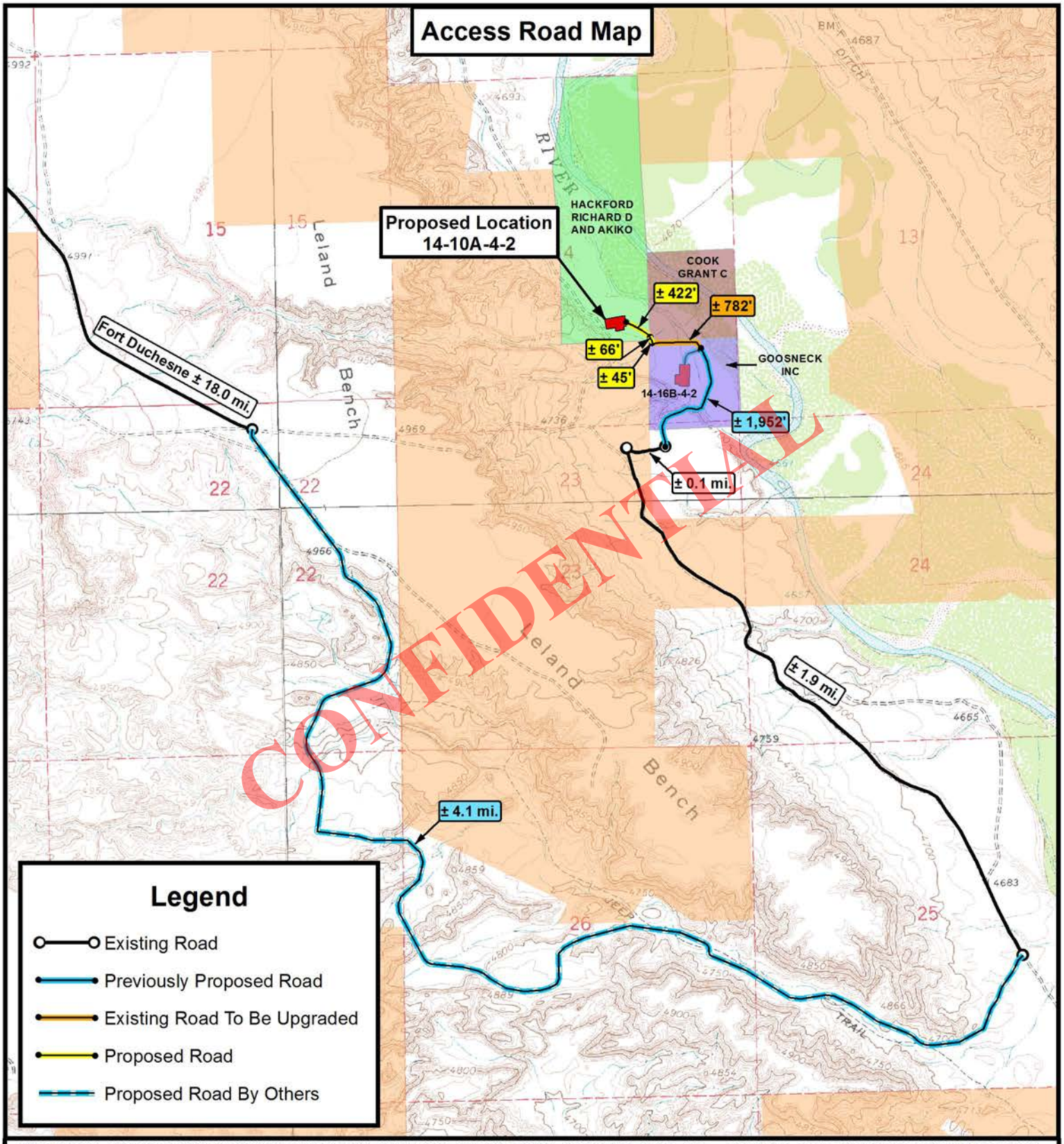
FINLEY RESOURCES INC.
14-10A-4-2
Sec. 14, T4S, R2E, U.S.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	06-11-14 A.P.C.
DATE:	02-13-2014		
SCALE:	1:100,000		

TOPOGRAPHIC MAP

SHEET A

API Well Number: 43047544390000



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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180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

FINLEY RESOURCES INC.

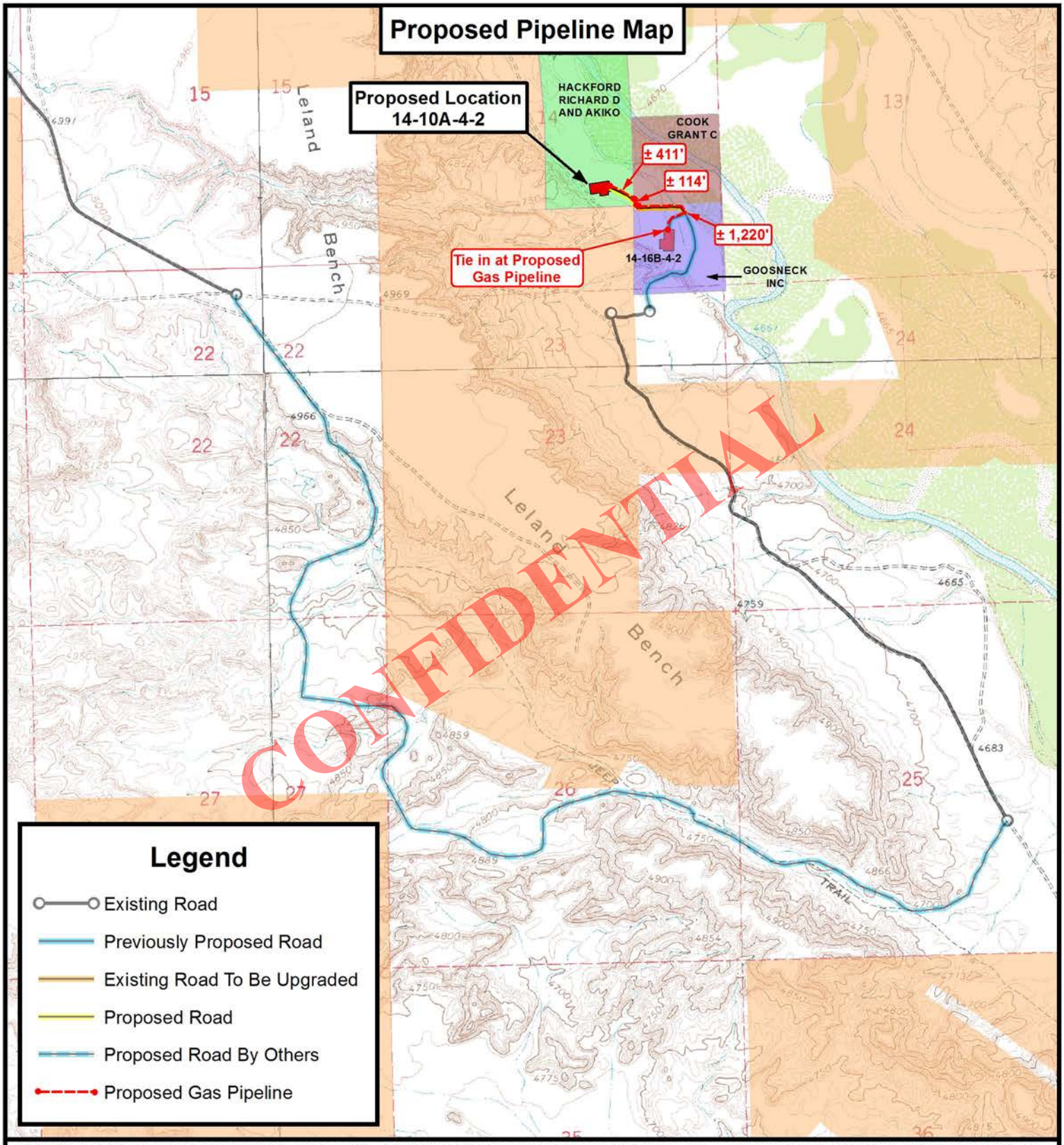
14-10A-4-2
Sec. 14, T4S, R2E, U.S.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	06-11-14 A.P.C.
DATE:	02-13-2014		
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET B

API Well Number: 43047544390000



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F: (435) 781-2518

N

FINLEY RESOURCES INC.

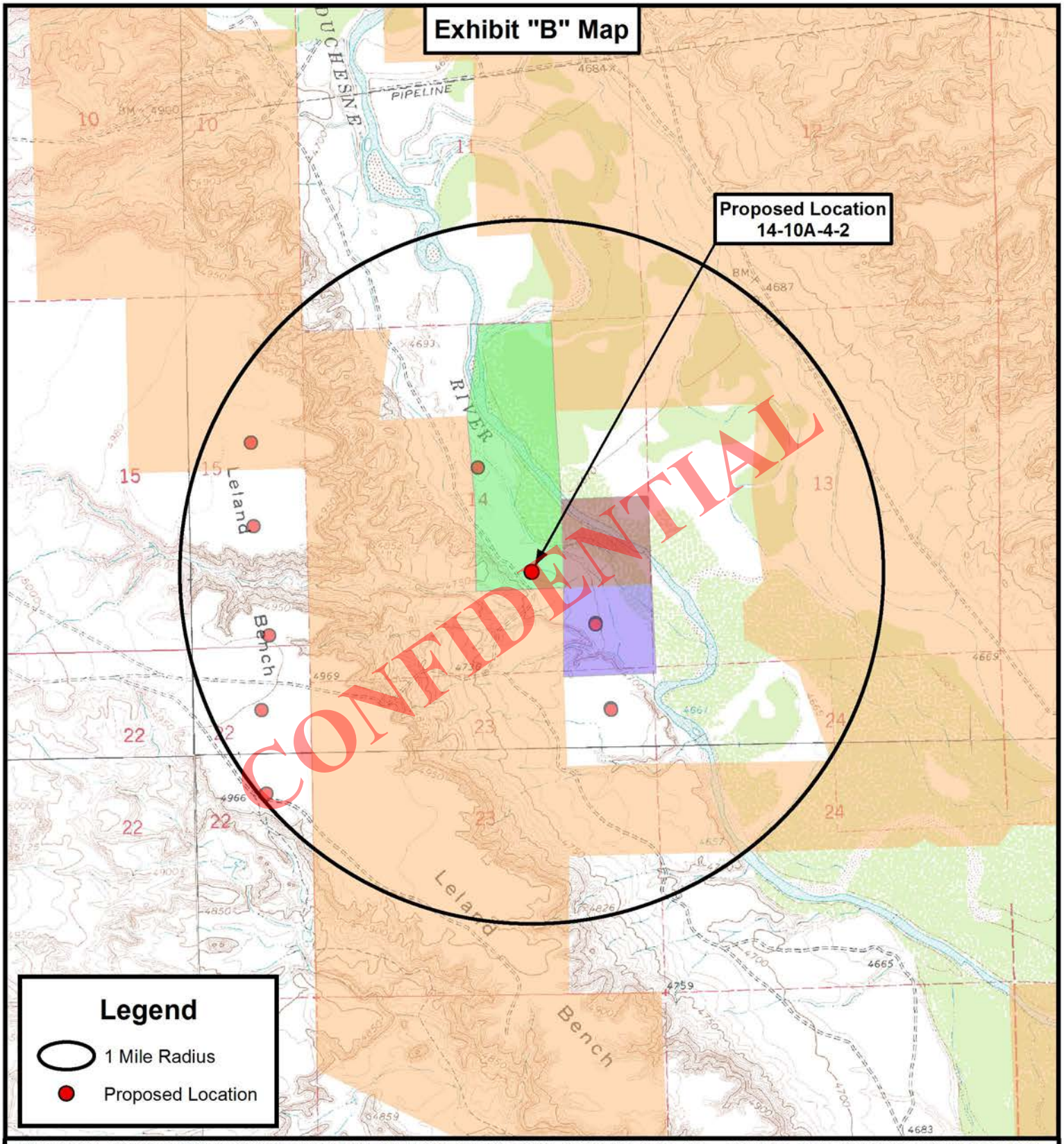
14-10A-4-2
Sec. 14, T4S, R2E, U.S.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	06-11-14 A.P.C.
DATE:	02-13-2014		
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET C

API Well Number: 43047544390000



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F: (435) 781-2518

N

FINLEY RESOURCES INC.

14-10A-4-2
Sec. 14, T4S, R2E, U.S.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	06-11-14 A.P.C.
DATE:	02-13-2014		
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET D

Finley Resources, Inc.

Uintah County, UT
Section 14-T4S-R2E NW 1/4 SE 1/4
14-10A-4-2

Wellbore #1

Plan: Design #1

Standard Planning Report

16 May, 2014

CONFIDENTIAL

RECEIVED: August 11, 2014

API Well Number: 43047544390000

Finley Resources, Inc.
14-10A-4-2
Uintah County, UT

CRESCENT DIRECTIONAL DRILLING

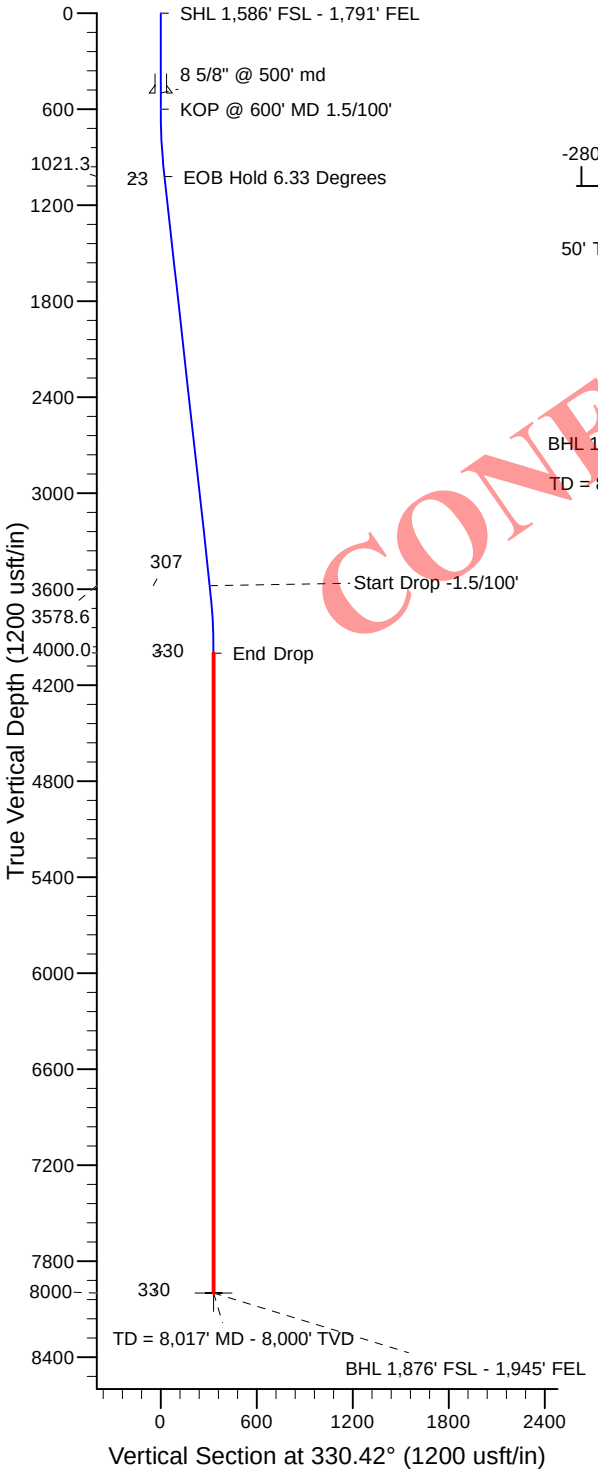
Geodetic System: US State Plane 1983
Zone: Utah Central Zone
WELL @ 4697.0usft
Ground Level: 4683.0
Latitude: 40° 7' 56.000 N
Longitude: 109° 43' 56.560 W
Magnetic North is 10.82° East of True North (Magnetic Declination)

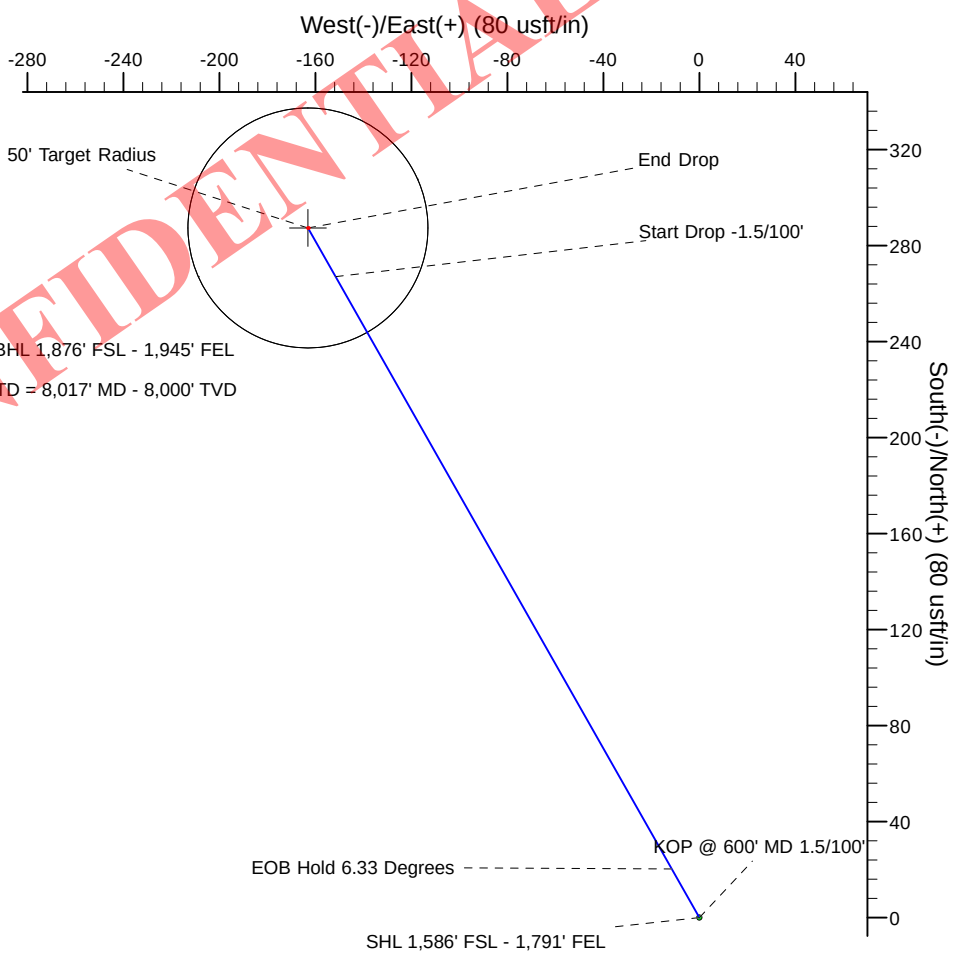
T M

Azimuths to True North
Magnetic North: 10.82°

Magnetic Field
Strength: 52081.3snT
Dip Angle: 65.86°
Date: 5/16/2014
Model: IGRF2010

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0
1022.2	6.33	330.42	1021.3	20.3	-11.5	1.50	330.42	23.3
3595.2	6.33	330.42	3578.7	267.1	-151.6	0.00	0.00	307.1
4017.4	0.00	0.00	4000.0	287.4	-163.1	1.50	180.00	330.4
8017.4	0.00	0.00	8000.0	287.4	-163.1	0.00	0.00	330.4





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Plan: Design #1 (14-10A-4-2/Wellbore #1)

Created By:	Mike Kirby	Date:	8:04, May 16 2014
Checked:		Date:	
Reviewed:		Date:	
Approved:	x	Date:	x

RECEIVED: August 11, 2014

Planning Report

Database:	Rocky Mountain R5000 Database	**Local Co-ordinate Reference:**	Well 14-10A-4-2
Company:	Finley Resources, Inc.	**TVD Reference:**	WELL @ 4697.0usft
Project:	Uintah County, UT	**MD Reference:**	WELL @ 4697.0usft
Site:	Section 14-T4S-R2E NW 1/4 SE 1/4	**North Reference:**	True
Well:	14-10A-4-2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project Uintah County, UT

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

Site Section 14-T4S-R2E NW 1/4 SE 1/4

Site Position:		**Northing:**	7,221,769.81 usft	**Latitude:**	40° 7' 56.000 N
From:	Lat/Long	**Easting:**	2,134,606.99 usft	**Longitude:**	109° 43' 56.560 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	1.13 °

Well 14-10A-4-2

Well Position	**+N/-S**	0.0 usft	**Northing:**	7,221,769.81 usft	**Latitude:**	40° 7' 56.000 N
	+E/-W	0.0 usft	**Easting:**	2,134,606.99 usft	**Longitude:**	109° 43' 56.560 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	4,697.0 usft	**Ground Level:**	4,683.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/16/2014	10.82	65.86	52,081

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	330.42

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	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,022.2	6.33	330.42	1,021.3	20.3	-11.5	1.50	1.50	0.00	330.42	
3,595.2	6.33	330.42	3,578.7	267.1	-151.6	0.00	0.00	0.00	0.00	
4,017.4	0.00	0.00	4,000.0	287.4	-163.1	1.50	-1.50	0.00	180.00	
8,017.4	0.00	0.00	8,000.0	287.4	-163.1	0.00	0.00	0.00	0.00	

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RECEIVED: August 11, 2014

Planning Report

Database:	Rocky Mountain R5000 Database	**Local Co-ordinate Reference:**	Well 14-10A-4-2
Company:	Finley Resources, Inc.	**TVD Reference:**	WELL @ 4697.0usft
Project:	Uintah County, UT	**MD Reference:**	WELL @ 4697.0usft
Site:	Section 14-T4S-R2E NW 1/4 SE 1/4	**North Reference:**	True
Well:	14-10A-4-2	**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
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 1,586' FSL - 1,791' FEL									
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
8 5/8" @ 500' md									
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 600' MD 1.5/100'									
700.0	1.50	330.42	700.0	1.1	-0.6	1.3	1.50	1.50	0.00
800.0	3.00	330.42	799.9	4.6	-2.6	5.2	1.50	1.50	0.00
900.0	4.50	330.42	899.7	10.2	-5.8	11.8	1.50	1.50	0.00
1,000.0	6.00	330.42	999.3	18.2	-10.3	20.9	1.50	1.50	0.00
1,022.2	6.33	330.42	1,021.3	20.3	-11.5	23.3	1.50	1.50	0.00
EOB Hold 6.33 Degrees									
1,100.0	6.33	330.42	1,098.7	27.7	-15.7	31.9	0.00	0.00	0.00
1,200.0	6.33	330.42	1,198.1	37.3	-21.2	42.9	0.00	0.00	0.00
1,300.0	6.33	330.42	1,297.4	46.9	-26.6	54.0	0.00	0.00	0.00
1,400.0	6.33	330.42	1,396.8	56.5	-32.1	65.0	0.00	0.00	0.00
1,500.0	6.33	330.42	1,496.2	66.1	-37.5	76.0	0.00	0.00	0.00
1,600.0	6.33	330.42	1,595.6	75.7	-43.0	87.0	0.00	0.00	0.00
1,700.0	6.33	330.42	1,695.0	85.3	-48.4	98.1	0.00	0.00	0.00
1,800.0	6.33	330.42	1,794.4	94.9	-53.9	109.1	0.00	0.00	0.00
1,900.0	6.33	330.42	1,893.8	104.5	-59.3	120.1	0.00	0.00	0.00
2,000.0	6.33	330.42	1,993.2	114.1	-64.7	131.2	0.00	0.00	0.00
2,100.0	6.33	330.42	2,092.6	123.7	-70.2	142.2	0.00	0.00	0.00
2,200.0	6.33	330.42	2,192.0	133.3	-75.6	153.2	0.00	0.00	0.00
2,300.0	6.33	330.42	2,291.3	142.8	-81.1	164.2	0.00	0.00	0.00
2,400.0	6.33	330.42	2,390.7	152.4	-86.5	175.3	0.00	0.00	0.00
2,500.0	6.33	330.42	2,490.1	162.0	-92.0	186.3	0.00	0.00	0.00
2,600.0	6.33	330.42	2,589.5	171.6	-97.4	197.3	0.00	0.00	0.00
2,700.0	6.33	330.42	2,688.9	181.2	-102.9	208.4	0.00	0.00	0.00
2,800.0	6.33	330.42	2,788.3	190.8	-108.3	219.4	0.00	0.00	0.00
2,900.0	6.33	330.42	2,887.7	200.4	-113.7	230.4	0.00	0.00	0.00
3,000.0	6.33	330.42	2,987.1	210.0	-119.2	241.5	0.00	0.00	0.00
3,100.0	6.33	330.42	3,086.5	219.6	-124.6	252.5	0.00	0.00	0.00
3,200.0	6.33	330.42	3,185.9	229.2	-130.1	263.5	0.00	0.00	0.00
3,300.0	6.33	330.42	3,285.2	238.8	-135.5	274.5	0.00	0.00	0.00
3,400.0	6.33	330.42	3,384.6	248.4	-141.0	285.6	0.00	0.00	0.00
3,500.0	6.33	330.42	3,484.0	258.0	-146.4	296.6	0.00	0.00	0.00
3,595.2	6.33	330.42	3,578.6	267.1	-151.6	307.1	0.00	0.00	0.00
Start Drop -1.5/100'									
3,600.0	6.26	330.42	3,583.4	267.5	-151.8	307.6	1.49	-1.49	0.00
3,700.0	4.76	330.42	3,682.9	275.9	-156.6	317.2	1.50	-1.50	0.00
3,800.0	3.26	330.42	3,782.7	282.0	-160.0	324.2	1.50	-1.50	0.00
3,900.0	1.76	330.42	3,882.6	285.8	-162.2	328.6	1.50	-1.50	0.00
4,000.0	0.26	330.42	3,982.6	287.3	-163.1	330.4	1.50	-1.50	0.00
4,017.4	0.00	330.42	4,000.0	287.4	-163.1	330.4	1.50	-1.50	0.00
End Drop									
4,100.0	0.00	0.00	4,082.6	287.4	-163.1	330.4	0.00	0.00	0.00
4,200.0	0.00	0.00	4,182.6	287.4	-163.1	330.4	0.00	0.00	0.00

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RECEIVED: August 11, 2014

Planning Report

Database:	Rocky Mountain R5000 Database	**Local Co-ordinate Reference:**	Well 14-10A-4-2
Company:	Finley Resources, Inc.	**TVD Reference:**	WELL @ 4697.0usft
Project:	Uintah County, UT	**MD Reference:**	WELL @ 4697.0usft
Site:	Section 14-T4S-R2E NW 1/4 SE 1/4	**North Reference:**	True
Well:	14-10A-4-2	**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)
4,300.0	0.00	0.00	4,282.6	287.4	-163.1	330.4	0.00	0.00	0.00
4,400.0	0.00	0.00	4,382.6	287.4	-163.1	330.4	0.00	0.00	0.00
4,500.0	0.00	0.00	4,482.6	287.4	-163.1	330.4	0.00	0.00	0.00
4,600.0	0.00	0.00	4,582.6	287.4	-163.1	330.4	0.00	0.00	0.00
4,700.0	0.00	0.00	4,682.6	287.4	-163.1	330.4	0.00	0.00	0.00
4,800.0	0.00	0.00	4,782.6	287.4	-163.1	330.4	0.00	0.00	0.00
4,900.0	0.00	0.00	4,882.6	287.4	-163.1	330.4	0.00	0.00	0.00
5,000.0	0.00	0.00	4,982.6	287.4	-163.1	330.4	0.00	0.00	0.00
5,100.0	0.00	0.00	5,082.6	287.4	-163.1	330.4	0.00	0.00	0.00
5,200.0	0.00	0.00	5,182.6	287.4	-163.1	330.4	0.00	0.00	0.00
5,300.0	0.00	0.00	5,282.6	287.4	-163.1	330.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,382.6	287.4	-163.1	330.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,482.6	287.4	-163.1	330.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,582.6	287.4	-163.1	330.4	0.00	0.00	0.00
5,700.0	0.00	0.00	5,682.6	287.4	-163.1	330.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,782.6	287.4	-163.1	330.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,882.6	287.4	-163.1	330.4	0.00	0.00	0.00
6,000.0	0.00	0.00	5,982.6	287.4	-163.1	330.4	0.00	0.00	0.00
6,100.0	0.00	0.00	6,082.6	287.4	-163.1	330.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,182.6	287.4	-163.1	330.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,282.6	287.4	-163.1	330.4	0.00	0.00	0.00
6,400.0	0.00	0.00	6,382.6	287.4	-163.1	330.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,482.6	287.4	-163.1	330.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,582.6	287.4	-163.1	330.4	0.00	0.00	0.00
6,700.0	0.00	0.00	6,682.6	287.4	-163.1	330.4	0.00	0.00	0.00
6,800.0	0.00	0.00	6,782.6	287.4	-163.1	330.4	0.00	0.00	0.00
6,900.0	0.00	0.00	6,882.6	287.4	-163.1	330.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,982.6	287.4	-163.1	330.4	0.00	0.00	0.00
7,100.0	0.00	0.00	7,082.6	287.4	-163.1	330.4	0.00	0.00	0.00
7,200.0	0.00	0.00	7,182.6	287.4	-163.1	330.4	0.00	0.00	0.00
7,300.0	0.00	0.00	7,282.6	287.4	-163.1	330.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,382.6	287.4	-163.1	330.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,482.6	287.4	-163.1	330.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,582.6	287.4	-163.1	330.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,682.6	287.4	-163.1	330.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,782.6	287.4	-163.1	330.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,882.6	287.4	-163.1	330.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,982.6	287.4	-163.1	330.4	0.00	0.00	0.00
8,017.0	0.00	0.00	7,999.6	287.4	-163.1	330.4	0.00	0.00	0.00
TD = 8,017' MD - 8,000' TVD - BHL 1,876' FSL - 1,945' FEL									
8,017.4	0.00	0.00	8,000.0	287.4	-163.1	330.4	0.00	0.00	0.00

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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
14-10A-4-2 PBHL - plan hits target center - Circle (radius 50.0)	0.00	0.00	8,000.0	287.4	-163.1	7,222,053.90	2,134,438.25	40° 7' 58.840 N	109° 43' 58.660 W

RECEIVED: August 11, 2014

Planning Report

Database:	Rocky Mountain R5000 Database	**Local Co-ordinate Reference:**	Well 14-10A-4-2
Company:	Finley Resources, Inc.	**TVD Reference:**	WELL @ 4697.0usft
Project:	Uintah County, UT	**MD Reference:**	WELL @ 4697.0usft
Site:	Section 14-T4S-R2E NW 1/4 SE 1/4	**North Reference:**	True
Well:	14-10A-4-2	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
500.0	500.0	8 5/8" @ 500' md	8-5/8	11

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1.0	1.0	0.0	0.0	SHL 1,586' FSL - 1,791' FEL
600.0	600.0	0.0	0.0	KOP @ 600' MD 1.5/100'
1,022.2	1,021.3	20.3	-11.5	EOB Hold 6.33 Degrees
3,595.2	3,578.6	267.1	-151.6	Start Drop -1.5/100'
4,017.4	4,000.0	287.4	-163.1	End Drop
8,017.0	7,999.6	287.4	-163.1	TD = 8,017' MD - 8,000' TVD
8,017.0	7,999.6	287.4	-163.1	BHL 1,876' FSL - 1,945' FEL

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RECEIVED: August 11, 2014

API Well Number: 43047544390000

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 11 & 14 Township 4 South Range 2 East and Section 30 Township 4 South 4 West where a future drillsite location, right-of-way, easement will be located.

Finley and the Surface Owner, Richard D. Hackford and Akiko Hackford have executed an oil and gas lease granting Finley the necessary surface use covering but not limited to, future drill site locations, right-of-ways and easements, dated November 15, 2013 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 11: Lot 13
Section 14: W/2NE/4, NW/4SE/4

Township 4 South, Range 4 West, USM
Section 30: SE/4

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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 §

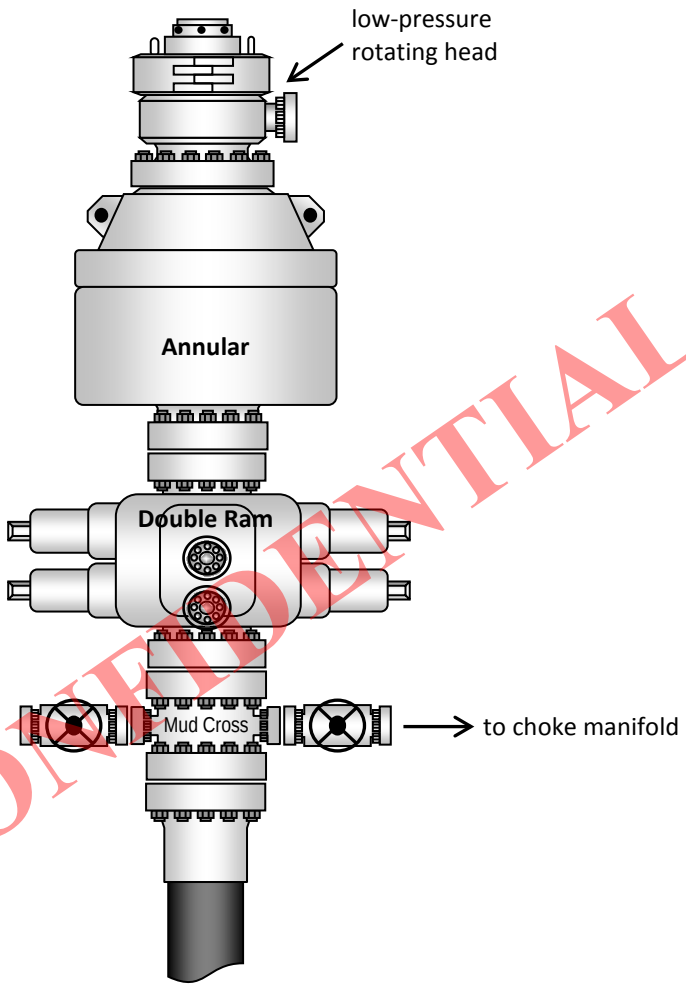
Before me the undersigned, a Notary Public, in and for said County and State, on this 5th day of May, 2014, personally appeared Scott Ramsey, as Land Manager, of Finley Resources Inc., to me known to be the identical person who subscribed the name of the maker therefore to the foregoing instrument, and 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]

ZACHARY THOMAS ARCHER
Notary Public, State of Texas
My Commission Expires
August 01, 2016

Typical 5M BOP stack configuration



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RECEIVED: May 19, 2014

API Well Number: 43047544390000

FINLEY resources
ACQUIRE » DEVELOP » SUCCEED

May 22, 2014

State of Utah
Division of Oil, Gas & Mining
Attn: Brad Hill
P.O. Box 145801
Salt Lake City, Utah 84114

Re: Exception Location
Hackford 14-10A-4-2
Section 14, Township 4 South Range 2 East
Uintah County, Utah

CONFIDENTIAL

Dear Mr. Hill,

Finley Resources Inc. ("Finley") proposes to drill the Hackford 14-10A-4-2 located in Section 14, Township 4 South Range 2 East, Uintah County, Utah. Due to topography Finley anticipates the drilling of said well from a surface location of 1,586' FSL and 1,791' FEL to legal bottom hole location of 1,876' FSL and 1945' FEL as shown on the attached plat.

Finley respectfully submits this request for exception to spacing, State of Utah conservation rule R649-3-11, and due to topography restraints the Hackford 14-10A-4-2 will be located less than 460' to the drilling unit boundary. Finley certifies that the Hackford 14-10A-4-2 will have a legal bottom hole location as to the Lower Green River and Wasatch Formation ("LGR").

Finley respectfully requests the approval of our APD given that the Hackford 14-10A-4-2 will have a legal bottom hole location and will only be completed and producing from the LGR.

If at a later date Finley desires to complete shallower formations, Finley will provide a sundry inclusive of the necessary spacing exception approvals.

Should you have any questions regarding this matter please contact me at the number provided below or via email at zarcher@finleyresources.com. Thank you for your consideration of our request.

Sincerely,

Zachary Archer
Landman
(817)-231-8759

FINLEY RESOURCES INC.

WELL PAD INTERFERENCE PLAT

14-10A-4-2

Pad Location: NWSE Section 14, T4S, R2E, U.S.B.&M.

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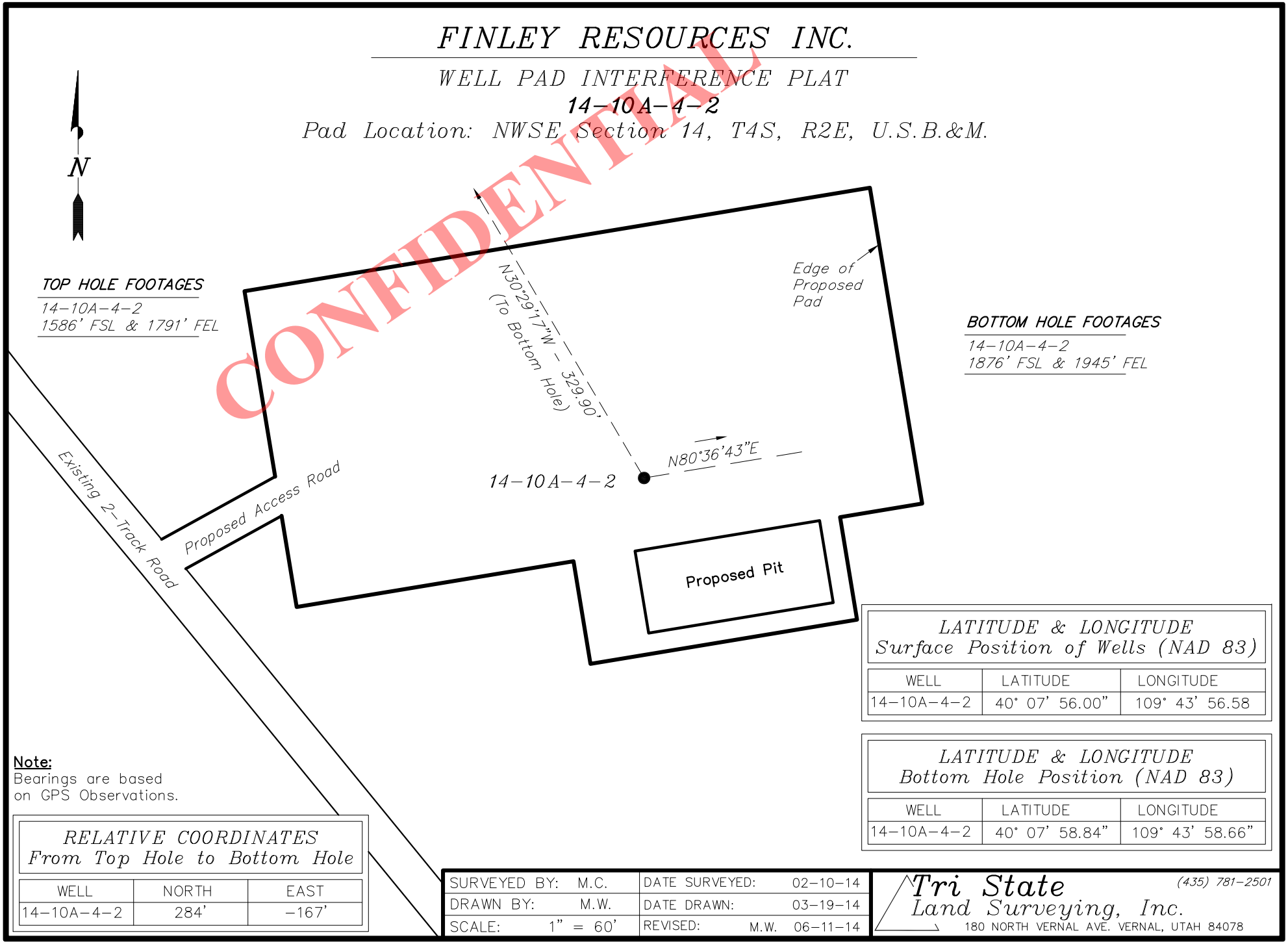


Note:
Bearings are based on GPS Observations.

RELATIVE COORDINATES
From Top Hole to Bottom Hole

WELL	NORTH	EAST
14-10A-4-2	284'	-167'

LATITUDE & LONGITUDE
Surface Position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
14-10A-4-2	40° 07' 56.00"	109° 43' 56.58

LATITUDE & LONGITUDE
Bottom Hole Position (NAD 83)

WELL	LATITUDE	LONGITUDE
14-10A-4-2	40° 07' 58.84"	109° 43' 58.66"

SURVEYED BY:	M.C.	DATE SURVEYED:	02-10-14
DRAWN BY:	M.W.	DATE DRAWN:	03-19-14
SCALE:	1" = 60'	REVISED: M.W.	06-11-14

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

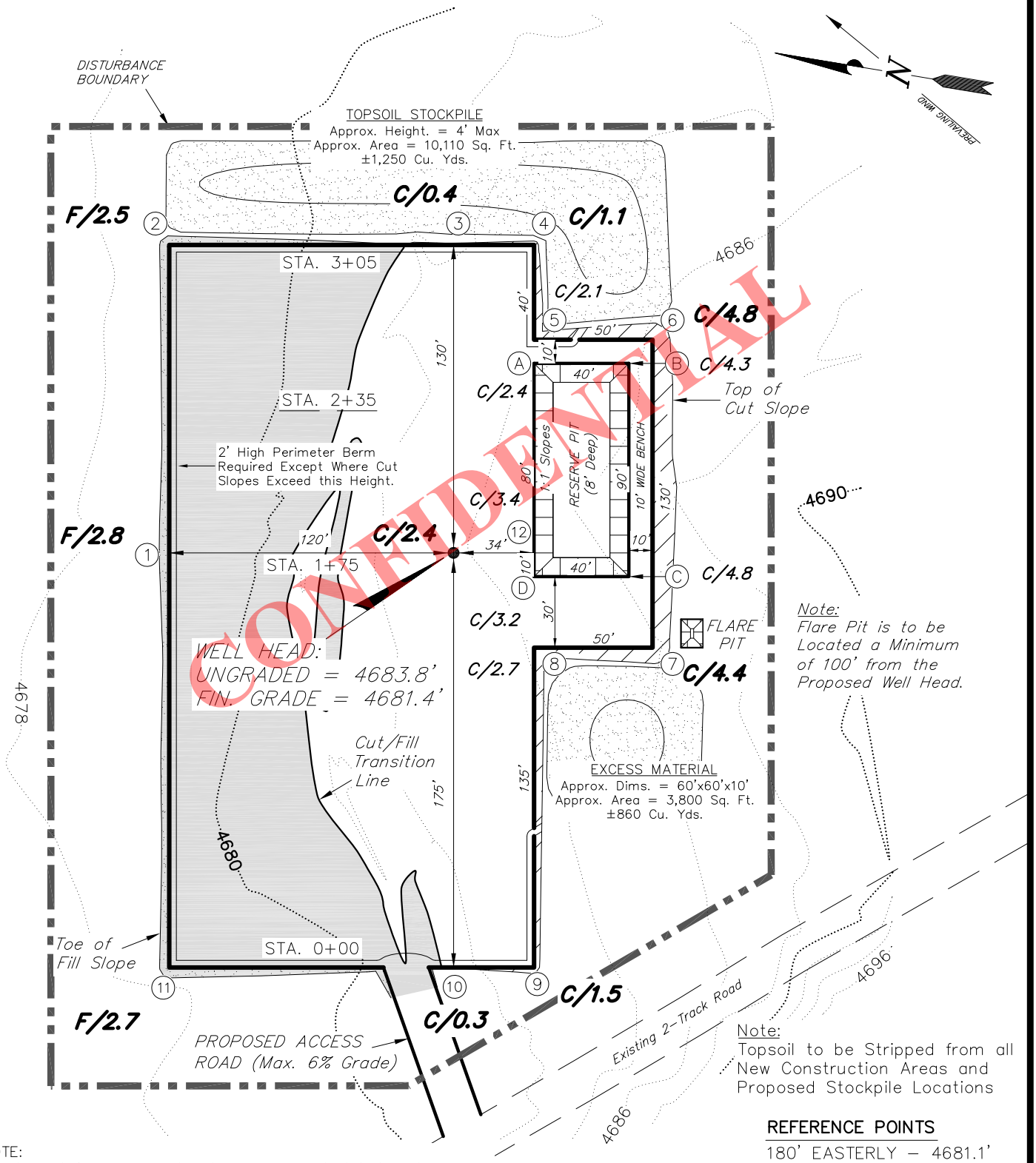
RECEIVED: June 23, 2014

FINLEY RESOURCES INC.

PROPOSED LOCATION LAYOUT

14-10A-4-2

Pad Location: NWSE Section 14, T4S, R2E, U.S.B.&M.



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NOTE:
The topsoil & excess material areas are calculated as being mounds containing 2,110 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

180' EASTERLY – 4681.1'
230' EASTERLY – 4680.0'
170' NORTHERLY – 4677.8'
220' NORTHERLY – 4676.6'

SURVEYED BY:	M.C.	DATE SURVEYED:	02-10-14
DRAWN BY:	M.W.	DATE DRAWN:	02-11-14
SCALE:	1" = 60'	REVISED:	M.W. 06-11-14

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

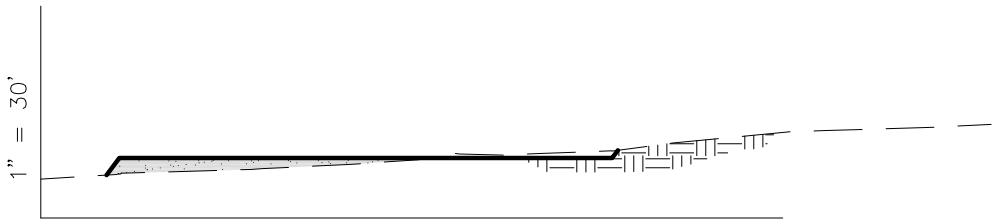
RECEIVED: June 23, 2014

FINLEY RESOURCES INC.

CROSS SECTIONS

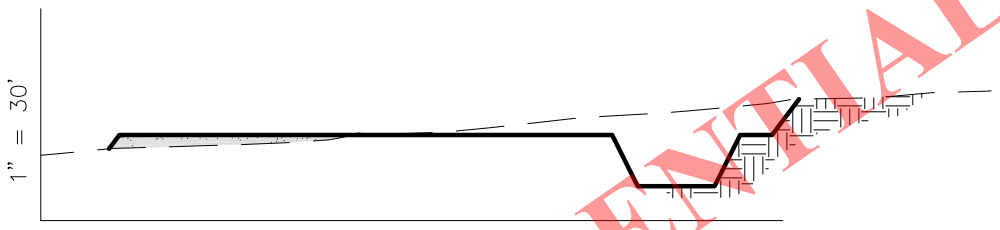
14-10A-4-2

Pad Location: NWSE Section 14, T4S, R2E, U.S.B.&M.



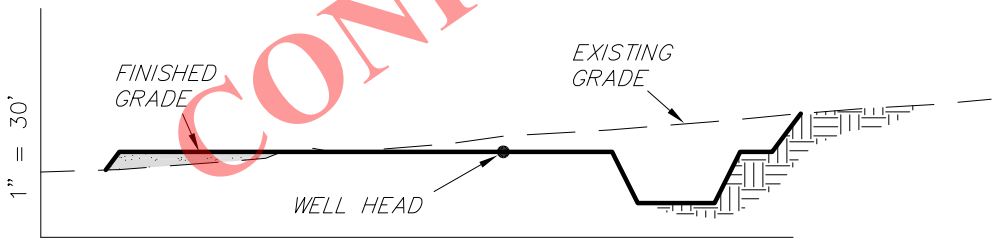
1" = 60'

STA. 3+05



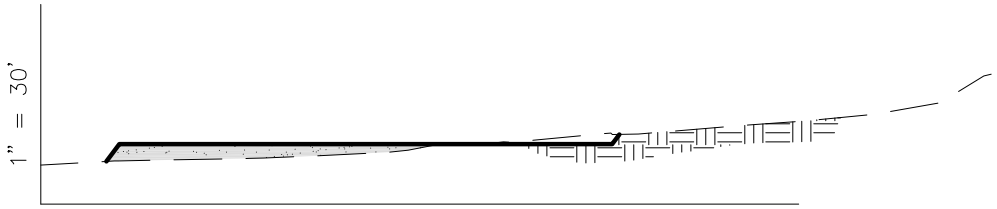
1" = 60'

STA. 2+35



1" = 60'

STA. 1+75



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	1,690	1,690	Topsoil is not included in Pad Cut Volume	0
PIT	780	0		780
TOTALS	2,470	1,690	1,130	780

SURVEYED BY:	M.C.	DATE SURVEYED:	02-10-14
DRAWN BY:	M.W.	DATE DRAWN:	02-11-14
SCALE:	1" = 60'	REVISED: M.W.	06-11-14

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

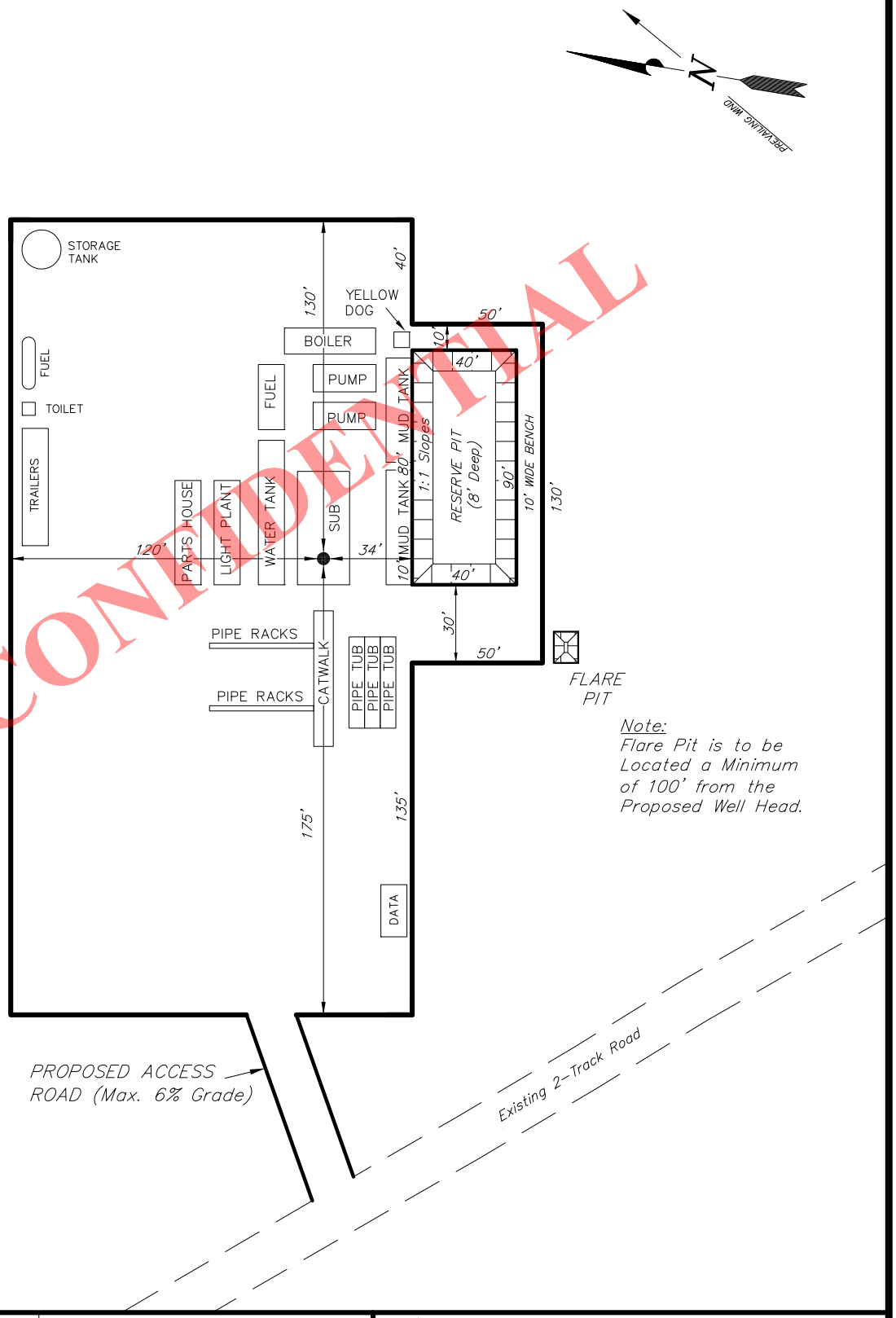
RECEIVED: June 23, 2014

FINLEY RESOURCES INC.

TYPICAL RIG LAYOUT

14-10A-4-2

Pad Location: NWSE Section 14, T4S, R2E, U.S.B.&M.



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

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SURVEYED BY:	M.C.	DATE SURVEYED:	02-10-14
DRAWN BY:	M.W.	DATE DRAWN:	02-11-14
SCALE:	1" = 60'	REVISED: M.W.	06-11-14

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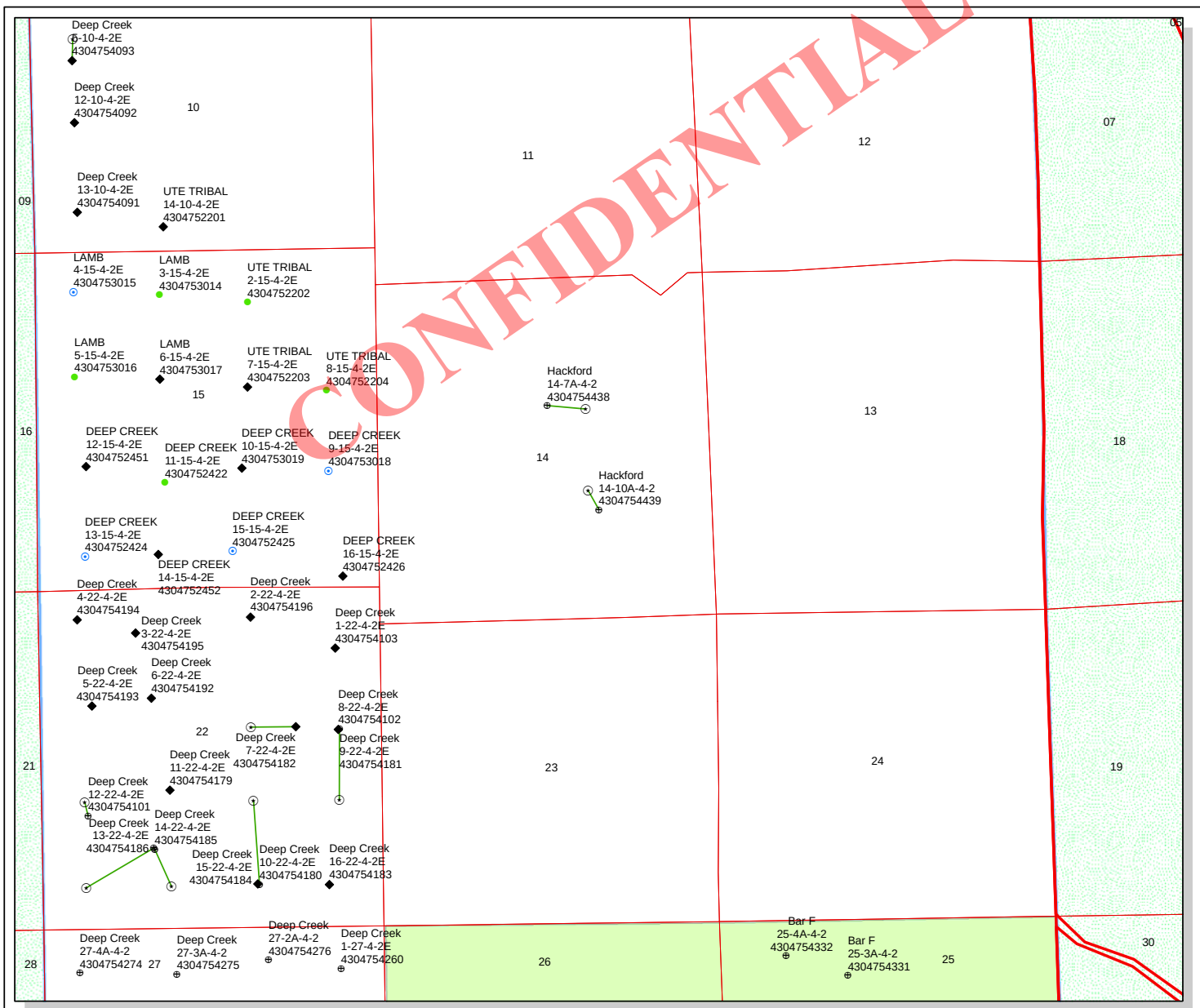
(435) 781-2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

RECEIVED: June 23, 2014

API Well Number: 43047544390000



API Number: 4304754439

Well Name: Hackford 14-10A-4-2

Township: T04.0S Range: R02.0E Section: 14 Meridian: U

Operator: FINLEY RESOURCES, INC.

Map Prepared: 5/23/2014
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

1,900 950 0 1,900 Feet

1:18,917

RECEIVED: May 23, 2014

API Well Number: 43047544390000

BOPE REVIEW FINLEY RESOURCES INC Hackford 14-10A-4-2 43047544390000

Well Name	FINLEY RESOURCES INC Hackford 14-10A-4-2 43047544390000			
String	COND	SURF	PROD	
Casing Size(")	13.375	8.625	5.500	
Setting Depth (TVD)	60	800	8000	
Previous Shoe Setting Depth (TVD)	0	60	800	
Max Mud Weight (ppg)	8.3	8.6	9.2	
BOPE Proposed (psi)	0	500	3000	
Casing Internal Yield (psi)	1000	2950	7740	
Operators Max Anticipated Pressure (psi)	3752		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=	358		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	262	YES	diverter
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	182	YES	OK
			***Can Full Expected Pressure Be Held At Previous Shoe?**	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	195	NO	OK
Required Casing/BOPE Test Pressure=		800	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=	3827		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2867	YES	3M BOP, two ram preventers, annular preventer, choke
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2067	YES	manifold
			***Can Full Expected Pressure Be Held At Previous Shoe?**	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2243	NO	Reasonable
Required Casing/BOPE Test Pressure=		3000	psi	
***Max Pressure Allowed @ Previous Casing Shoe=**		800	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

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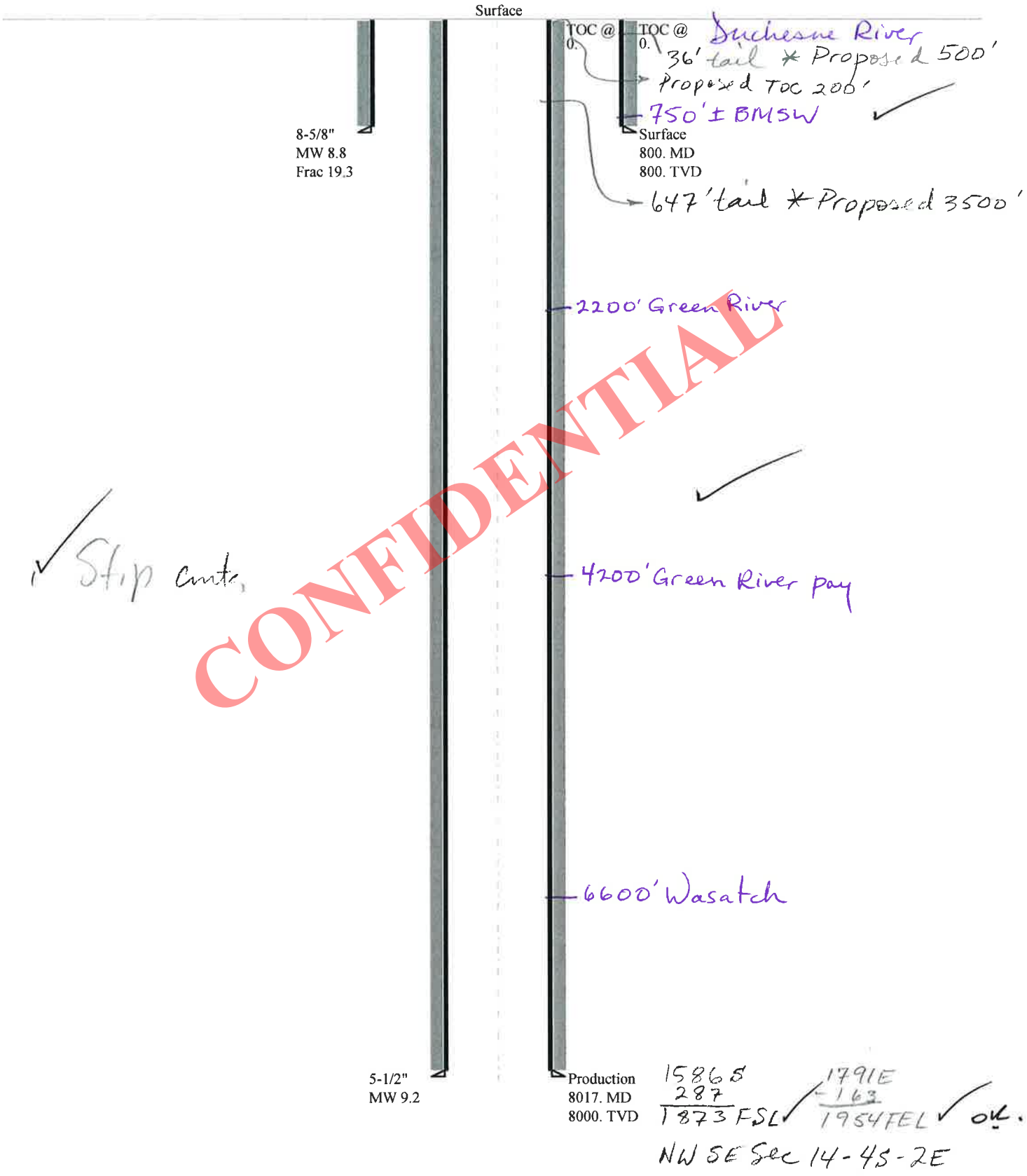
RECEIVED: August 18, 2014

API Well Number: 43047544390000

43047544390000 Hackford 14-10A-4-2rev

Casing Schematic



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API Well Number: 43047544390000

Well name:	**43047544390000 Hackford 14-10A-4-2rev**
Operator:	**ULTRA RESOURCES INC**
String type:	Surface
Project ID:	43-047-54436
Location:	UINTAH COUNTY

Design parameters:

Collapse

Mud weight: 8.800 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 704 psi

Internal gradient: 0.120 psi/ft

Calculated BHP 800 psi

Annular backup: 1.50 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

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: 694 ft

Environment:

H2S considered? No

Surface temperature: 74 °F

Bottom hole temperature: 85 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 100 ft

Cement top: Surface

Directional well information:

Kick-off point 600 ft

Departure at shoe: 5 ft

Maximum dogleg: 1.5 °/100ft

Inclination at shoe: 3 °

Re subsequent strings:

Next setting depth: 8,000 ft

Next mud weight: 9.200 ppg

Next setting BHP: 3,823 psi

Fracture mud wt: 19.250 ppg

Fracture depth: 800 ft

Injection pressure: 800 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	800	8.625	24.00	J-55	ST&C	800	800	7.972	4118

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	366	1350	3.692	738	2950	4.00	16.7	244	14.65 J

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Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940

Date: August 14,2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 800 ft, a mud weight of 8.8 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

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

API Well Number: 43047544390000

Well name:	**43047544390000 Hackford 14-10A-4-2rev**
Operator:	**ULTRA RESOURCES INC**
String type:	Production
Project ID:	43-047-54436
Location:	UINTAH COUNTY

Design parameters:

Collapse

Mud weight: 9.200 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 2,063 psi

Internal gradient: 0.220 psi/ft

Calculated BHP 3,823 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

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

Tension is based on buoyed weight.

Neutral point: 6,901 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	186 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	1,000 ft
Cement top:	Surface

Directional Info - Build & Drop

Kick-off point	600 ft
Departure at shoe:	330 ft
Maximum dogleg:	1.5 °/100ft
Inclination at shoe:	0 °

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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	8017	5.5	17.00	N-80	LT&C	8000	8017	4.767	45187

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	3823	6290	1.645	3823	7740	2.02	117	348	2.97 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940

Date: August 14,2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8000 ft, a mud weight of 9.2 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.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

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

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator FINLEY RESOURCES, INC.
Well Name Hackford 14-10A-4-2
API Number 43047544390000 **APD No** 9721 **Field/Unit** WILDCAT
Location: 1/4,1/4 NWSE **Sec** 14 **Tw** 4.0S **Rng** 2.0E 1586 FSL 1791 FEL
GPS Coord (UTM) 607994 4443207 **Surface Owner** Richard D. & Akiko Hackford

Participants

J. Burns - StarPoint ; J. Simonton - Finley Resources ; D. Slaugh - Tristate; Richard Hackford - landowner

Regional/Local Setting & Topography

This location is on the edge of the Duchesne River floodplain on the east of the Leland bench in Uintah County. It is approximately 24 road miles southeast of Fort Duchesne and 5 miles southwest of Pelican lake. A large erosional feature drains the bench due west of location. Surface owner has constructed a ditch to carry flows from the feature across his acreage and into the river. This ditch is within the boundaries of the pad footprint. Riparian vegetation (willows and tamarisk) grows thick and heavily on east and north side of the pad but, not within the pad footprint. The location is dominantly vegetated with Greasewood and 4 wing saltbrush

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Surface Use Plan

Current Surface Use
Wildlfe Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	**Width** 200 **Length** 300	Offsite	UNTA

Ancillary Facilities

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands Y

if not floodplain, very near the floodplain

Flora / Fauna

High desert shrubland / riparian ecosystem. Expected vegetation consists of sagebrush, globemallow, evening primrose, Atriplex spp., mustard spp, rabbit brush, horsebrush, broom snakeweed, Opuntia spp and spring annuals / willow and tamarisk.
Dominant vegetation;
greasewood
Wildlife;
Adjacent habitat contains forbs that may be suitable browse for deer, antelope, prairie dogs or rabbits, though none were observed.

Soil Type and Characteristics

light colored deep sands with rounded gravels consisitent with a floodplain profile

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Erosion Issues Y
sand is highly erodible

Sedimentation Issues Y

Site Stability Issues Y
sands and floodplain give rise to stability concerns

Drainage Diverson Required? Y
exisiting ditch will need to be relocated

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? N **Paleo Potental Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N

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Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)		20
Distance to Surface Water (feet)	300 to 1000	2
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	47 1 Sensitivity Level

Characteristics / Requirements
Pit to be dug to a depth of 8'. Pit should be fenced to prevent entry by deer, other wildlife and domestic animals. Pit to be closed within one year after drilling activities are complete

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

Other Observations / Comments
Brad
This is one of the 3 well pads in the floodplain I was telling you about. Tristate took another look and the well heads are all in the floodplain. I suggest the following if you wish to approve these locations:
1. import material for well pad - river bottom, deep sand, probably high water table, stability problems
2. build substantial berm - not made of reject sand
3. Closed loop maybe in order here - if it does flood I don't want to see the remnants of the pit

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washed down the river
4. Consult with the ACoE or State water rights (for stream alt permit) - this may be a requirement anyway

I have concerns for stability and pollution transport in this location because of proximity to the Duchesne river and assoc. floodplain and building on deep sands.
Location is out of riparian vegetation and Outlaw engineering claims it is out of the floodplain. Not told (or sure if I agree) if that determination is 25 year or 100 year. Finley had Tristate prepare and overlay and the location does fall within the 100 year floodplain.
I would like to see the existing diversion ditch relocated. The surface owner felt a need to build it originally

Chris Jensen	7/16/2014
Evaluator	**Date / Time**

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Application for Permit to Drill
Statement of Basis
Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
9721	43047544390000	LOCKED	OW	P	No

Operator	FINLEY RESOURCES, INC.	**Surface Owner-APD**	Richard D. & Akiko Hackford
Well Name	Hackford 14-10A-4-2	**Unit**	
Field	WILDCAT	**Type of Work**	DRILL
Location	NWSE 14 4S 2E U 1586 FSL 1791 FEL GPS Coord (UTM) 608005E 4443235N		

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Geologic Statement of Basis

Finley proposes to set 500' of surface casing at this location. The base of the moderately saline water at this location is estimated to be at a depth of 750'. A search of Division of Water Rights records shows 2 water wells within a 10,000 foot radius of the center of Section 14. Depths are listed as 70 feet and 966 feet. Listed uses are domestic, irrigation and stock watering. The surface formation at this site is the Uinta Formation and alluvium associated with the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Unconsolidated sediments along the Duchesne River are a source of ground water and should be protected. Surface casing should be extended to cover the base of the moderately saline ground water.

Brad Hill	7/30/2014
APD Evaluator	**Date / Time**

Surface Statement of Basis

Location is proposed in a good location although outside the spacing window. Well will be drilled directionally. Access road enters the pad from the west. The landowner or its representative was in attendance for the pre-site inspection.
The soil type and topography at present do combine to pose a significant threat to erosion and sediment/ pollution transport in these regional climate conditions. It is adjacent riparian vegetation and soils resemble floodplain profiles. Surface owner has an existing diversion ditch to direct flows from the bench.
Usual construction standards of the Operator do not appear to be adequate for the proposed purpose as submitted. Plans lack measures for importing materials or using a geogrid to improve stability.
I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. A riparian area can be found adjacent the site to the north and East. The location was not previously surveyed for cultural and paleontological resources (as the operator saw fit). I have advised the operator take all measures necessary to comply with ESA and MBTA and that actions insure no disturbance to species that may have not been seen during onsite visit.
The location should be bermed with substantial materials and methods, to prevent fluids from entering or leaving the confines of the pad. Fencing around the reserve pit will be necessary to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit. A diversion is to be built sufficient to conduct overland or channel flow off from the bench in a natural channel west of the pad

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around the north side of the pad.

Chris Jensen	7/16/2014
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from entering or leaving the pad with substantial materials and construction methods. Pad to use geo grid or imported materials and employ construction methods for site stability.
Surface	existing drainage diversion ditch on the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations. Location is to be fenced and cattle guard with gate installed at access for the protection of grazing livestock

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WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/19/2014
API NO. ASSIGNED: 43047544390000
WELL NAME: Hackford 14-10A-4-2
OPERATOR: FINLEY RESOURCES INC (N3460)
PHONE NUMBER: 435 650-3866
CONTACT: Don Hamilton

PROPOSED LOCATION: NWSE 14 040S 020E
Permit Tech Review: ✔

SURFACE: 1586 FSL 1791 FEL
Engineering Review: ✔

BOTTOM: 1876 FSL 1945 FEL
Geology Review: ✔

COUNTY: UINTAH
LATITUDE: 40.13251
LONGITUDE: -109.73227
UTM SURF EASTINGS: 608005.00
NORTHINGS: 4443235.00
FIELD NAME: WILDCAT
LEASE TYPE: 4 - Fee
LEASE NUMBER: Fee
PROPOSED PRODUCING FORMATION(S): WASATCH
SURFACE OWNER: 4 - Fee
COALBED METHANE: NO

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RECEIVED AND/OR REVIEWED:

- ✔ **PLAT**
- ✔ **Bond:** STATE - RLB0011264
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ✔ **Water Permit:** 43-11500
- ✔ **RDCC Review:** 2014-08-19 00:00:00.0
- ✔ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ✔ **R649-3-3. Exception**
- ✔ **Drilling Unit**

Board Cause No: R649-3-11
Effective Date:
Siting:

- ✔ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
1 - Exception Location - bhill
5 - Statement of Basis - bhill
12 - Cement Volume (3) - hmacdonald
15 - Directional - dmason
21 - RDCC - dmason
23 - Spacing - dmason
25 - Surface Casing - hmacdonald

RECEIVED: August 19, 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

Permit To Drill

****

Well Name: Hackford 14-10A-4-2
API Well Number: 43047544390000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 8/19/2014

Issued to:
FINLEY RESOURCES INC , PO Box 2200, Fort Worth, TX 76113

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:
Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

The Application for Permit to Drill has been forwarded to the Resource Development Coordinating Committee for review of this action. The operator will be required to comply with any applicable recommendations resulting from this review. (See attached)

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and

Mining (the “Board”). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 5 1/2" production string shall be determined from actual hole diameter in order to place lead cement from the pipe setting depth back to 200' and tail cement to 3500' as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

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

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

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

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

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

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

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

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

Approved By:

For John Rogers
Associate Director, Oil & Gas

FINLEY RESOURCES, INC. NOTIFICATION FORM—STATE, UTE TRIBE, BIA.,BLM

OPERATOR: FINLEY RESOURCES, INC. CONTRACTOR NAME: Pro-Petro

SUBMITTED BY: JIM SIMONTON PHONE #: 435-630-1023

WELL NAME/NUMBER: **Hackford 14-10A-4-2**

QTR/QTR: NWSE SEC.: 14 T: 4 S R: 2 E

LEASE SN: FEE

API #: **43-047-54439**

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LOCATION CONSTRUCTION START DATE: Est.9/20/14 (LC Welding)

LOCATION CONSTRUCTION FINISH DATE: Est.9/26/14

CONDUCTOR SPUD NOTICE: DATE: 9/17/14 TIME: 3:00PM

SURFACE SPUD NOTICE: DATE: 9/28/14 TIME: 8:00PM

SURFACE CSG.CEMENT NOTICE: DATE: 9/29/14 TIME: 2:00PM

REMARKS: This is a FEE well/surface and minerals. Notification of surface hole spud and cement. Spud 12-1/4" surface hole at 6:00PM with Pro-Petro on 9/28/14. Air mist hole to 1005'. Ran 22 jts.of new 8-5/8" 32# LT&C J-55 csg.with shoe at 995'. Cement with 720 sxs.15.8 ppg cement and bump plug at 12:00PM on 9/29/14. Had est.22 bbl.of cement to surface and hole standing full. RDUFA.

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: Fee

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
Hackford 14-10A-4-2

2. NAME OF OPERATOR:
FINLEY RESOURCES INC

9. API NUMBER:
43047544390000

3. ADDRESS OF OPERATOR:
PO Box 2200 , Fort Worth, TX, 76113

PHONE NUMBER:
817 231-8735 Ext

9. FIELD and POOL or WILDCAT:
WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1586 FSL 1791 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWSE Section: 14 Township: 04.0S Range: 02.0E Meridian: U

COUNTY:
UINTAH

STATE:
UTAH

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

TYPE OF SUBMISSION

- ✓ NOTICE OF INTENT
  Approximate date work will start: 11/1/2014
- ☐ SUBSEQUENT REPORT
  Date of Work Completion:
- ☐ SPUD REPORT
  Date of Spud:
- ☐ DRILLING REPORT
  Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	✓ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Finley Resources, Inc. hereby makes application to commingle Wasatch and Green River production from the referenced well. Attached please find the following supplemental affidavit with attachment. Allocation should never be necessary but if it is ever necessary we will based on individual formation production percentages developed during the initial testing of the well.

Approved by the
Utah Division of
Oil, Gas and Mining
November 20, 2014
Date:
By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Don Hamilton	435 650-3866	Permitting Agent (Star Point Enterprises, Inc.)

SIGNATURE	DATE
N/A	10/24/2014

RECEIVED: Oct. 24, 2014

FINLEY resources
ACQUIRE » DEVELOP » SUCCEED

AFFIDAVIT OF OWNERSHIP

On behalf of Finley Resources Inc., I, Zachary Archer personally attest and duly swear and depose to the following information:

My name is Zachary Archer, Landman for Finley Resources Inc., authorized to do business in the State of Utah, whose address is 1308 Lake Street, Fort Worth, Texas 76102.

Whereas, Finley Resources Inc. ("Finley") owns 100% of the leasehold in the following lands:

Township 4 South Range 2 East:
Section 14: NWSE

All Application's for Permit to Drill have been filed with a legal bottom hole location of 460 feet from the exterior lease line. Where an exception location is required, Finley will provide the necessary approvals as required by the Utah Division of Oil, Gas and Mining and the State of Utah. The lease and production interest ownership is consistent throughout both the Green River and Wasatch formations and there will no need for an allocation method.

This constitutes 100% of the ownership of the pool within the aforementioned lands. Furthermore, this shall serve as sufficient notice of Finley's intent to comingle the aforementioned lands as to the Green River and Wasatch formations.

Zachary Archer, Landman
Finley Resources Inc.

ACKNOWLEDGEMENT

STATE OF TEXAS §

COUNTY OF TARRANT §

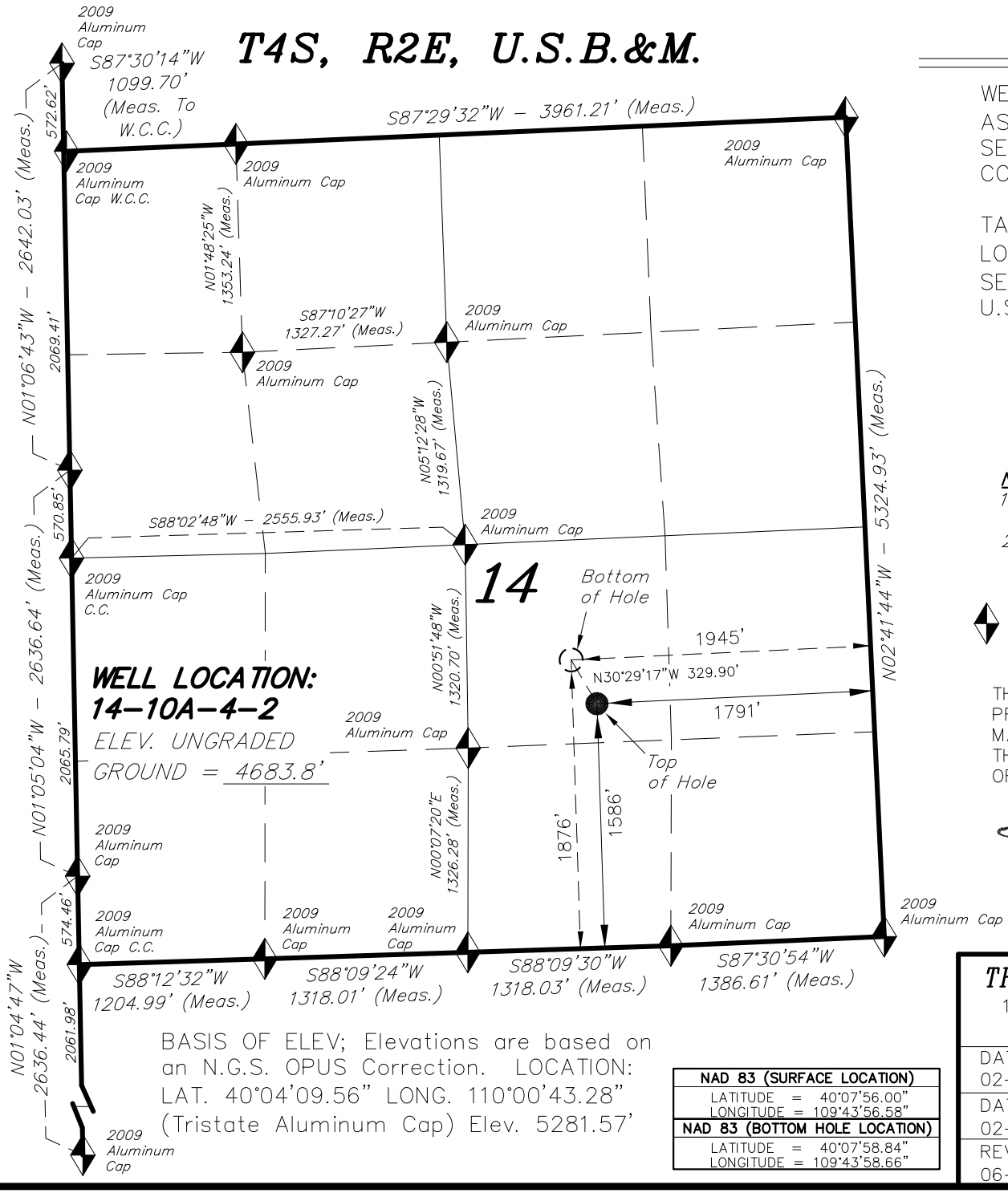
Before me the undersigned, a Notary Public, in and for said County and State, on this 20th day of October, 2014, personally appeared Zachary Archer, as Landman, of Finley Resources Inc., to me known to be the identical person who subscribed the name of the maker therefore to the foregoing instrument, 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: 9-09-17

[SEAL]

ANGELICA BERNAL
Notary Public, State of Texas
My Commission Expires
September 09, 2017

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



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°07'56.00"
LONGITUDE = 109°43'56.58"
NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 40°07'58.84"
LONGITUDE = 109°43'58.66"

FINLEY RESOURCES INC.

WELL LOCATION, 14-10A-4-2, LOCATED AS SHOWN IN THE NW 1/4 SE 1/4 OF SECTION 14, T4S, R2E, U.S.B.&M. UINTAH COUNTY, UTAH.

TARGET BOTTOM HOLE, 14-10A-4-2, LOCATED AS SHOWN IN THE NW 1/4 SE 1/4 OF SECTION 14, T4S, R2E, U.S.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.

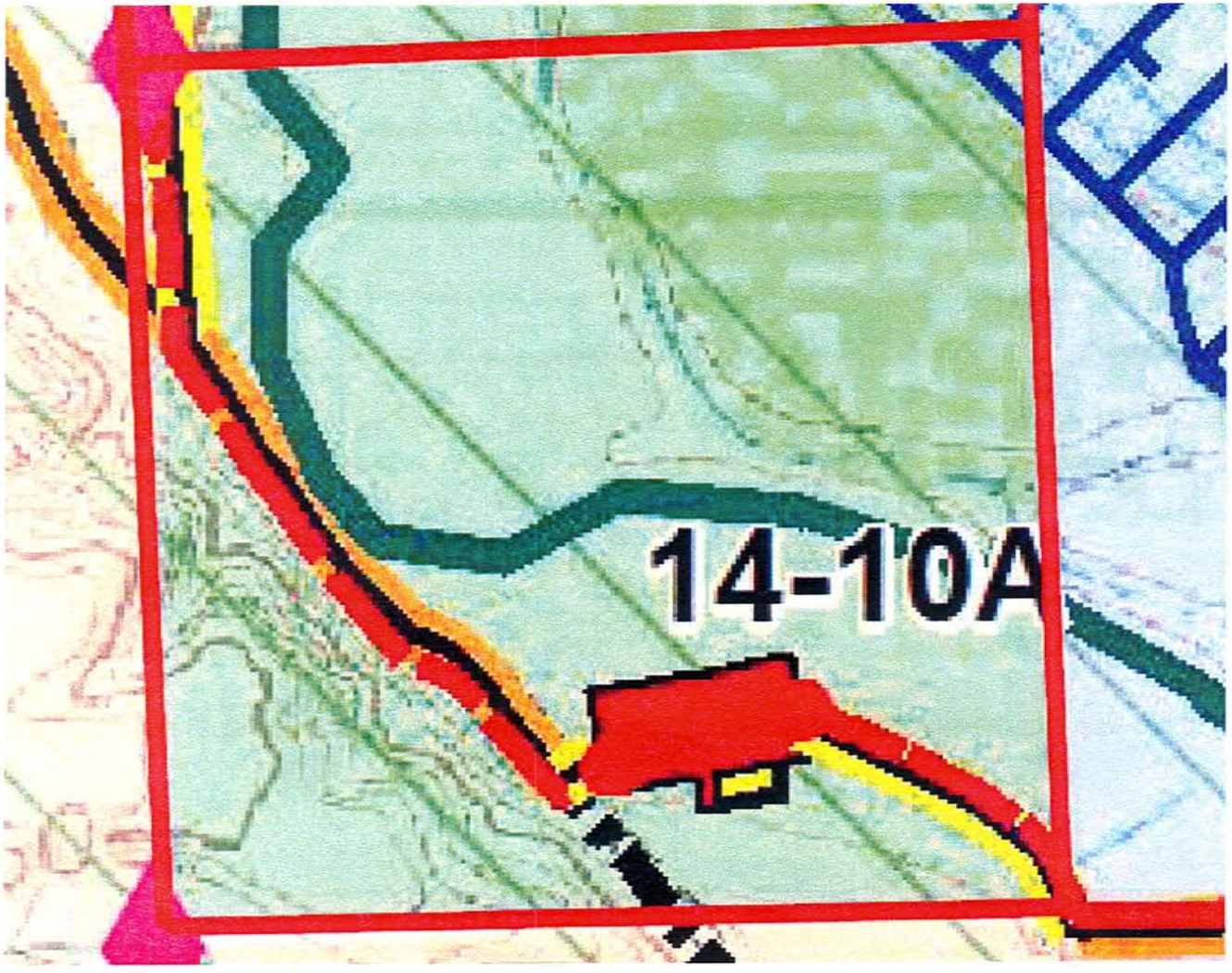
REGISTERED LAND SURVEYOR No.189377 06-11-14 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

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

DATE SURVEYED: 02-10-14	SURVEYED BY: M.C.
DATE DRAWN: 02-11-14	DRAWN BY: M.W.
REVISED: 06-11-14 M.W.	SCALE: 1" = 1000'

RECEIVED: Oct. 24, 2014


14-10A

Reset Form

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

AMENDED REPORT ☐ (highlight changes)

FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME

b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: Hackford 14-7A-4-2

2. NAME OF OPERATOR: Finley Resources, Inc

9. API NUMBER: 4304754439

3. ADDRESS OF OPERATOR: 1308 Lake Street CITY Fort Worth STATE TX ZIP 76102

PHONE NUMBER: (817) 231-8735

10 FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1586 FSL , 1791 FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW:
AT TOTAL DEPTH: 1876 FSL , 1945 FEL

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 14 4S 2E

12. COUNTY: Uintah

13. STATE: UTAH

14. DATE SPUDDED: 10/10/2014

15. DATE T.D. REACHED: 10/16/2014

16. DATE COMPLETED: 1/15/2015 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 4684 GL

18. TOTAL DEPTH: ~~MD~~ 7,489 TVD 7,457

19. PLUG BACK T.D.: MD 7,430 TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
Triple Combo

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

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

HOLE SIZE	SIZE/GRADE		WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS		SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12 1/4	8 5/8	J55	32		995		15.8 pp	720		surface	
7 7/8	5 1/2	N80	17		7,479			800		320	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	7,249							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) GreenRiver/Wasat				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS	
4,610	7,372			Open ☑	Squeezed ☐
				Open ☐	Squeezed ☐
				Open ☐	Squeezed ☐
				Open ☐	Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
4,610-7372	7,730 bbl tot fluid ; 662,000# of 20/40 mesh sand

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: P

(5/2000)

(CONTINUED ON BACK)

RECEIVED: Feb. 11, 2015

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
1/19/2015		1/24/2015		24			77	0	197	Pump
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
64/64	490	60	38.00	0	0		77	0	197	Prod

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.
Green River	1,920		
Douglas Creek	5,350		
Black Shale	5,815		
Uteland Butte	6,328		
Wasatch	6,465		
TD	7,489		

34. FORMATION (Log) MARKERS:

Name	Top (Measured Depth)
Green River	1,920
Douglas Creek	5,350
Black Shale	5,815
Uteland Butte	6,328
Wasatch	6,465
TD	7,489

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) James Terry TITLE Field Operations Engieer

SIGNATURE _____ DATE 2/10/2015

This report must be submitted within 30 days of

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

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

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

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

RECEIVED: Feb. 11, 2015

Finley Resources, Inc.

Uintah County, UT
Section 14-T4S-R2E NW 1/4 SE 1/4
Hackford 14-10A-4-2

Capstar #329

Survey: END OF WELL REPORT

Standard Survey Report

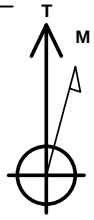
16 October, 2014

RECEIVED: Feb. 11, 2015

Finley Resources, Inc.
Hackford 14-10A-4-2
Uintah County, UT

CRESCENT DIRECTIONAL DRILLING

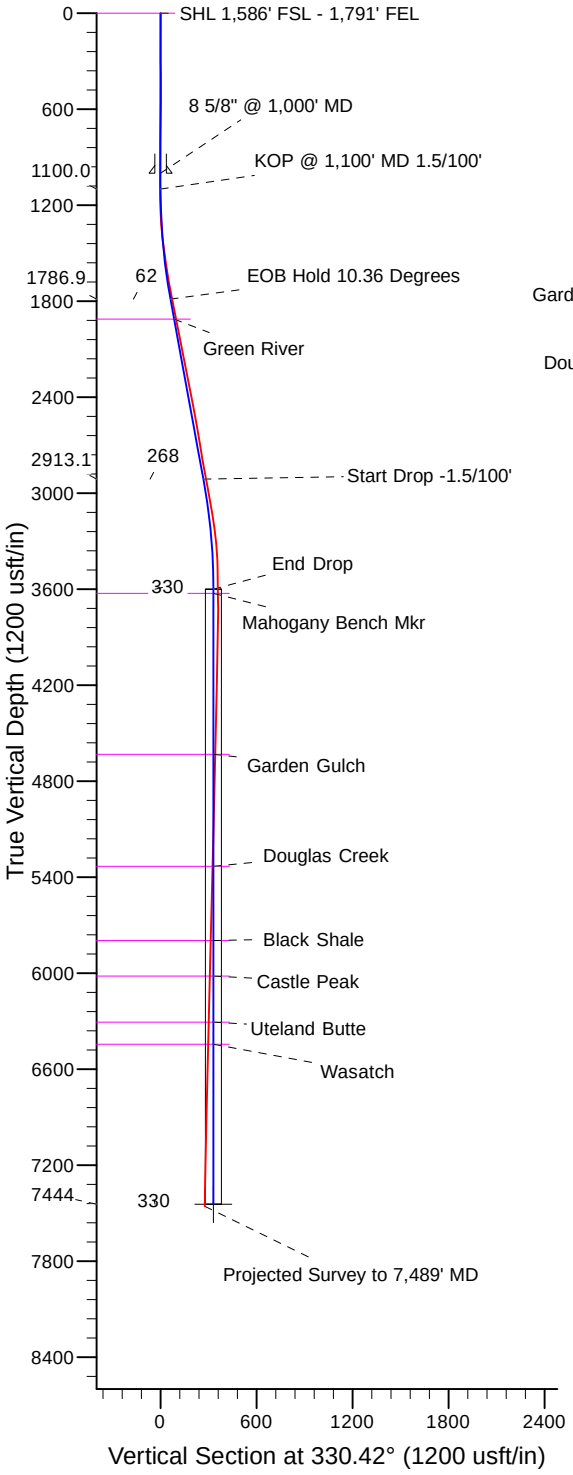
Geodetic System: US State Plane 1983
Zone: Utah Central Zone
WELL @ 4697.0usft
Ground Level: 4683.0
Latitude: 40° 7' 56.000 N
Longitude: 109° 43' 56.560 W
Magnetic North is 10.76° East of True North (Magnetic Declination)

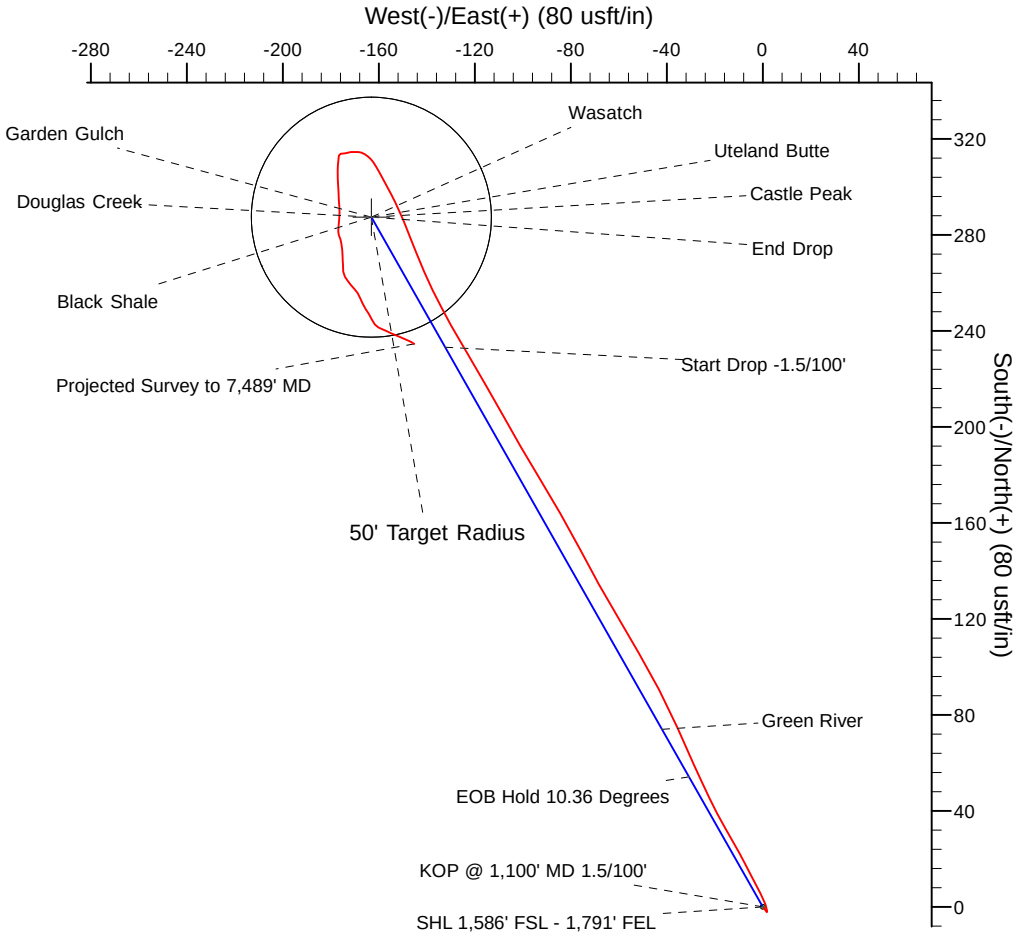


Azimuths to True North
Magnetic North: 10.76°

Magnetic Field
Strength: 52041.1snT
Dip Angle: 65.85°
Date: 10/11/2014
Model: IGRF2010

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1100.0	0.00	0.00	1100.0	0.0	0.0	0.00	0.00	0.0
1790.7	10.36	330.42	1786.9	54.2	-30.7	1.50	330.42	62.3
2935.5	10.36	330.42	2913.1	233.2	-132.4	0.00	0.00	268.2
3626.2	0.00	0.00	3600.0	287.4	-163.1	1.50	180.00	330.4
7470.2	0.00	0.00	7444.0	287.4	-163.1	0.00	0.00	330.4





Plan: Revised 10-07-14 (Hackford 14-10A-4-2/Capstar #329)

Created By:	Mike Kirby	Date:	10:54, October 16 2014
Checked:		Date:	
Reviewed:		Date:	
Approved:	x	Date:	x

RECEIVED: Feb. 11, 2015

Survey Report

Company:	Finley Resources, Inc.	**Local Co-ordinate Reference:**	Well Hackford 14-10A-4-2
Project:	Uintah County, UT	**TVD Reference:**	WELL @ 4697.0usft
Site:	Section 14-T4S-R2E NW 1/4 SE 1/4	**MD Reference:**	WELL @ 4697.0usft
Well:	Hackford 14-10A-4-2	**North Reference:**	True
Wellbore:	Capstar #329	**Survey Calculation Method:**	Minimum Curvature
Design:	Capstar #329	**Database:**	Rocky Mountain R5000 Database

Project Uintah County, UT

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

Site Section 14-T4S-R2E NW 1/4 SE 1/4

Site Position:		**Northing:**	7,221,769.81 usft	**Latitude:**	40° 7' 56.000 N
From:	Lat/Long	**Easting:**	2,134,606.99 usft	**Longitude:**	109° 43' 56.560 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	1.13 °

Well Hackford 14-10A-4-2

Well Position	**+N/-S**	0.0 usft	**Northing:**	7,221,769.81 usft	**Latitude:**	40° 7' 56.000 N
	+E/-W	0.0 usft	**Easting:**	2,134,606.99 usft	**Longitude:**	109° 43' 56.560 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	4,697.0 usft	**Ground Level:**	4,683.0 usft

Wellbore Capstar #329

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/11/2014	10.76	65.85	52,041

Design Capstar #329

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	330.42

Survey Program **Date** 10/16/2014

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,068.0	7,489.0	END OF WELL REPORT (Capstar #329)		

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
1,068.0	0.30	142.20	1,068.0	-2.2	1.7	-2.8	0.03	0.03	0.00
1,154.0	1.10	355.40	1,154.0	-1.6	1.8	-2.2	1.58	0.93	-170.70
1,241.0	2.50	341.00	1,240.9	1.1	1.1	0.4	1.68	1.61	-16.55
1,326.0	4.40	332.10	1,325.8	5.7	-1.0	5.5	2.32	2.24	-10.47
1,414.0	6.30	332.80	1,413.4	13.0	-4.8	13.7	2.16	2.16	0.80
1,500.0	7.80	331.70	1,498.7	22.3	-9.7	24.2	1.75	1.74	-1.28
1,588.0	8.40	329.80	1,585.9	33.1	-15.8	36.6	0.75	0.68	-2.16
1,675.0	9.80	334.30	1,671.8	45.3	-22.2	50.4	1.80	1.61	5.17
1,761.0	10.80	335.60	1,756.4	59.2	-28.7	65.7	1.19	1.16	1.51

RECEIVED: Feb. 11, 2015

Survey Report

Company:	Finley Resources, Inc.	**Local Co-ordinate Reference:**	Well Hackford 14-10A-4-2
Project:	Uintah County, UT	**TVD Reference:**	WELL @ 4697.0usft
Site:	Section 14-T4S-R2E NW 1/4 SE 1/4	**MD Reference:**	WELL @ 4697.0usft
Well:	Hackford 14-10A-4-2	**North Reference:**	True
Wellbore:	Capstar #329	**Survey Calculation Method:**	Minimum Curvature
Design:	Capstar #329	**Database:**	Rocky Mountain R5000 Database

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)
1,848.0	11.60	336.50	1,841.7	74.7	-35.6	82.5	0.94	0.92	1.03
1,935.0	11.60	331.70	1,927.0	90.4	-43.2	99.9	1.11	0.00	-5.52
2,021.0	11.50	330.80	2,011.2	105.5	-51.5	117.2	0.24	-0.12	-1.05
2,108.0	11.00	328.30	2,096.5	120.1	-60.1	134.1	0.80	-0.57	-2.87
2,195.0	10.60	331.70	2,182.0	134.2	-68.2	150.4	0.86	-0.46	3.91
2,281.0	11.60	331.90	2,266.4	148.8	-76.1	167.0	1.16	1.16	0.23
2,367.0	11.30	330.40	2,350.7	163.8	-84.3	184.0	0.49	-0.35	-1.74
2,455.0	10.50	328.00	2,437.1	178.1	-92.8	200.7	1.04	-0.91	-2.73
2,541.0	10.30	330.80	2,521.7	191.4	-100.7	216.2	0.63	-0.23	3.26
2,628.0	9.60	330.10	2,607.4	204.5	-108.1	231.2	0.82	-0.80	-0.80
2,715.0	9.50	330.50	2,693.2	217.0	-115.3	245.7	0.14	-0.11	0.46
2,803.0	9.50	329.10	2,780.0	229.6	-122.6	260.2	0.26	0.00	-1.59
2,890.0	10.10	330.70	2,865.7	242.4	-130.0	275.0	0.76	0.69	1.84
2,977.0	11.60	334.10	2,951.1	256.9	-137.5	291.3	1.87	1.72	3.91
3,064.0	10.50	338.90	3,036.5	272.2	-144.2	307.9	1.65	-1.26	5.52
3,150.0	9.10	337.30	3,121.3	285.8	-149.7	322.4	1.66	-1.63	-1.86
3,236.0	7.20	332.40	3,206.4	296.8	-154.8	334.6	2.35	-2.21	-5.70
3,324.0	6.90	331.40	3,293.7	306.4	-159.9	345.3	0.37	-0.34	-1.14
3,410.0	3.60	309.00	3,379.4	312.6	-164.4	353.0	4.45	-3.84	-26.05
3,498.0	2.50	275.80	3,467.2	314.5	-168.5	356.7	2.31	-1.25	-37.73
3,585.0	1.70	260.60	3,554.2	314.5	-171.7	358.3	1.11	-0.92	-17.47
3,671.0	1.60	254.50	3,640.1	314.0	-174.1	359.0	0.23	-0.12	-7.09
3,757.0	0.90	280.40	3,726.1	313.8	-175.9	359.7	1.03	-0.81	30.12
3,844.0	1.20	182.40	3,813.1	313.0	-176.6	359.4	1.84	0.34	-112.64
3,932.0	1.20	191.20	3,901.1	311.2	-176.8	357.9	0.21	0.00	10.00
4,018.0	1.50	182.40	3,987.1	309.2	-177.0	356.3	0.42	0.35	-10.23
4,105.0	1.30	177.40	4,074.0	307.0	-177.1	354.4	0.27	-0.23	-5.75
4,192.0	1.20	185.70	4,161.0	305.1	-177.1	352.8	0.24	-0.11	9.54
4,279.0	1.40	177.80	4,248.0	303.2	-177.1	351.1	0.31	0.23	-9.08
4,365.0	1.50	173.70	4,334.0	301.0	-177.0	349.1	0.17	0.12	-4.77
4,451.0	1.60	176.70	4,419.9	298.7	-176.8	347.0	0.15	0.12	3.49
4,538.0	1.50	178.20	4,506.9	296.3	-176.7	344.9	0.12	-0.11	1.72
4,625.0	1.50	176.60	4,593.9	294.1	-176.6	342.9	0.05	0.00	-1.84
4,712.0	1.60	176.40	4,680.9	291.7	-176.4	340.8	0.12	0.11	-0.23
4,799.0	1.70	179.20	4,767.8	289.2	-176.3	338.6	0.15	0.11	3.22
4,885.0	1.80	187.30	4,853.8	286.6	-176.5	336.4	0.31	0.12	9.42
4,972.0	2.10	183.10	4,940.7	283.7	-176.8	333.9	0.38	0.34	-4.83
5,059.0	0.90	185.20	5,027.7	281.4	-176.9	332.0	1.38	-1.38	2.41
5,146.0	1.20	156.30	5,114.7	279.9	-176.6	330.6	0.69	0.34	-33.22
5,233.0	1.30	166.90	5,201.7	278.1	-176.0	328.7	0.29	0.11	12.18
5,320.0	1.40	167.30	5,288.6	276.1	-175.6	326.8	0.12	0.11	0.46
5,407.0	1.80	177.30	5,375.6	273.7	-175.3	324.5	0.56	0.46	11.49
5,493.0	1.50	174.20	5,461.6	271.2	-175.1	322.3	0.36	-0.35	-3.60
5,581.0	1.00	181.80	5,549.5	269.3	-175.0	320.6	0.60	-0.57	8.64

RECEIVED: Feb. 11, 2015

Survey Report

Company:	Finley Resources, Inc.	**Local Co-ordinate Reference:**	Well Hackford 14-10A-4-2
Project:	Uintah County, UT	**TVD Reference:**	WELL @ 4697.0usft
Site:	Section 14-T4S-R2E NW 1/4 SE 1/4	**MD Reference:**	WELL @ 4697.0usft
Well:	Hackford 14-10A-4-2	**North Reference:**	True
Wellbore:	Capstar #329	**Survey Calculation Method:**	Minimum Curvature
Design:	Capstar #329	**Database:**	Rocky Mountain R5000 Database

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)
5,667.0	1.70	178.40	5,635.5	267.3	-175.0	318.8	0.82	0.81	-3.95
5,753.0	1.70	176.20	5,721.5	264.7	-174.9	316.5	0.08	0.00	-2.56
5,840.0	1.50	143.90	5,808.5	262.5	-174.1	314.2	1.05	-0.23	-37.13
5,926.0	1.20	147.50	5,894.4	260.8	-173.0	312.2	0.36	-0.35	4.19
6,012.0	1.50	137.10	5,980.4	259.3	-171.7	310.2	0.45	0.35	-12.09
6,099.0	1.50	139.10	6,067.4	257.6	-170.2	308.0	0.06	0.00	2.30
6,187.0	1.40	148.60	6,155.3	255.8	-168.9	305.8	0.30	-0.11	10.80
6,274.0	1.60	157.70	6,242.3	253.7	-167.9	303.5	0.36	0.23	10.46
6,362.0	1.70	152.40	6,330.3	251.4	-166.8	301.0	0.21	0.11	-6.02
6,448.0	1.80	149.30	6,416.2	249.2	-165.5	298.4	0.16	0.12	-3.60
6,536.0	1.60	146.60	6,504.2	246.9	-164.1	295.8	0.24	-0.23	-3.07
6,623.0	1.70	154.60	6,591.2	244.8	-162.9	293.3	0.29	0.11	9.20
6,711.0	1.50	144.90	6,679.1	242.6	-161.7	290.8	0.38	-0.23	-11.02
6,798.0	1.20	111.80	6,766.1	241.4	-160.2	289.0	0.94	-0.34	-38.05
6,885.0	1.20	114.50	6,853.1	240.7	-158.5	287.5	0.06	0.00	3.10
6,972.0	1.30	111.00	6,940.1	239.9	-156.7	286.0	0.14	0.11	-4.02
7,058.0	1.30	119.60	7,026.0	239.1	-155.0	284.4	0.23	0.00	10.00
7,145.0	1.20	109.00	7,113.0	238.3	-153.3	282.9	0.29	-0.11	-12.18
7,233.0	1.30	113.10	7,201.0	237.6	-151.5	281.4	0.15	0.11	4.66
7,319.0	1.60	114.70	7,287.0	236.7	-149.5	279.7	0.35	0.35	1.86
7,407.0	1.60	115.70	7,374.9	235.7	-147.3	277.7	0.03	0.00	1.14
7,439.0	1.60	118.50	7,406.9	235.3	-146.5	276.9	0.24	0.00	8.75
7,475.0	1.60	118.50	7,442.9	234.8	-145.6	276.1	0.00	0.00	0.00
14-10A-4-2 PBHL									
7,489.0	1.60	118.50	7,456.9	234.6	-145.2	275.7	0.00	0.00	0.00
Projected Survey to 7,489' MD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
7,489.0	7,456.9	234.6	-145.2	Projected Survey to 7,489' MD

Checked By: _____ Approved By: _____ Date: _____

RECEIVED: Feb. 11, 2015

CRESCENT DIRECTIONAL DRILLING

JOB NO.:	CA141895	Report Time:	2400	8 of 8
Company:	Finley Resources	API JOB #	43047544390000	
LOCATION:	Randlett	WORK ORDER#		
RIG NAME:	Capstar #329	FIELD:	Three Rivers	
STATE:	Utah	Township:	4S	
COUNTY:	Uintah	SECT\RANGE:	14	2E
WELL NAME:	Hackford 14-10A-4-2			

From Thursday, October 16, 2014 at 0000 to Thursday, October 16, 2014 at 2400

DRILLING SUMMARY

Start Depth	7489.00	Rotary Hours	0.00
End Depth	7489.00	Circulating Hours	0.00
Total Drilled:	0.00	Avg. Total ROP:	NA
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA
Slide Hours:	0.00	Percent Rotary:	NA
Below Rotary Hrs.	5.00	Percent Slide:	NA

Drilling Parameters

WOB	14	Pick UP	82	Slack Off	65	SPM	
RAB	73	SPP	950	FlowRate	416 - 416	122	

Mud Data

Type				PV	4	SOLID	8.8
Weight	9.5	GAS	0	YP	3	BHT°	127
Viscosity	30	SAND	0.25	PH	8.5	Flow T°	0
Chlorides	62000	WL	0			Oil %	0

PERSONNEL

Lead Directional :	Martin Reedy
Second Directional :	Alan Caswell/Mike Martin
MWD Operator1	Dirk Lockard
MWD Operator2	
Directional Company:	Crescent Directional
Geologist:	
Company Man:	Lynn Rich

Incl. In:	1.6	Azm. In:	118.5	Incl. Out:	1.6	Azm. Out:	118.5

CASING

Size	Lb/ft	Set Depth

Signature:

BHA

BHA # 1:Q5065, 6 1/2 7:8 3.0 Slow HR .155 rpg 1.5 ADJ, NMDC Pony , UBHO, NMDC, GAP Sub, NMDC, 2 DC, 16 jts 4 1/2 Hevi, ,

Daily Cost	$8,450.00
Cummulative Cost:	$78,940.00

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
16-Oct-14	00:00	05:00	5.00	7489	7489	POOH	POOH

RECEIVED: Feb. 11, 2015

CRESCENT DIRECTIONAL DRILLING

JOB NO.:	CA141895	Report Time:	2400	7 of 7
Company:	Finley Resources	API JOB #	43047544390000	
LOCATION:	Randlett	WORK ORDER#		
RIG NAME:	Capstar #329	FIELD:	Three Rivers	
STATE:	Utah	Township:	4S	
COUNTY:	Uintah	SECT\RANGE:	14	2E
WELL NAME:	Hackford 14-10A-4-2			

From Wednesday, October 15, 2014 at 0000 to Wednesday, October 15, 2014 at 2400

DRILLING SUMMARY

Start Depth	7093.00	Rotary Hours	4.92
End Depth	7189.00	Circulating Hours	0.00
Total Drilled:	96.00	Avg. Total ROP:	19.53
Total Rotary Drilled:	96.00	Avg. Rotary ROP:	19.53
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA
Slide Hours:	0.00	Percent Rotary:	100.00
Below Rotary Hrs.	5.00	Percent Slide:	.00

Drilling Parameters

WOB	14	Pick UP	82	Slack Off	65	SPM	
RAB	73	SPP	950	FlowRate	416 - 416	122	

Mud Data

Type				PV	4	SOLID	8.8
Weight	9.5	GAS	0	YP	3	BHT°	127
Viscosity	30	SAND	0.25	PH	8.5	Flow T°	0
Chlorides	62000	WL	0			Oil %	0

PERSONNEL

Lead Directional :	Martin Reedy
Second Directional :	Alan Caswell/Mike Martin
MWD Operator1	Dirk Lockard
MWD Operator2	
Directional Company:	Crescent Directional
Geologist:	
Company Man:	Lynn Rich

Incl. In:	1.3	Azm. In:	111	Incl. Out:	0

CASING

Size	Lb/ft	Set Depth

Signature:

Azm. Out:	0	Daily Cost	$8,450.00
		Cummulative Cost:	$70,490.00

BHA

BHA # 1:Q5065, 6 1/2 7:8 3.0 Slow HR .155 rpg 1.5 ADJ, NMDC Pony , UBHO, NMDC, GAP Sub, NMDC, 2 DC, 16 jts 4 1/2 Hevi, ,

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
15-Oct-14	00:00	01:05	1.08	7093	7108	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
15-Oct-14	01:05	01:10	0.08	7108	7108	Survey & Conn.	Survey & Conn.@7058_Inc 1.3°_Azm °
15-Oct-14	01:10	05:00	3.83	7108	7189	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)

RECEIVED: Feb. 11, 2015

CRESCENT DIRECTIONAL DRILLING

JOB NO.:	CA141895	Report Time:	2400	6 of 7
Company:	Finley Resources	API JOB #	43047544390000	
LOCATION:	Randlett	WORK ORDER#		
RIG NAME:	Capstar #329	FIELD:	Three Rivers	
STATE:	Utah	Township:	4S	
COUNTY:	Uintah	SECT\RANGE:	14	2E
WELL NAME:	Hackford 14-10A-4-2			

From Tuesday, October 14, 2014 at 0000 to Tuesday, October 14, 2014 at 2400

DRILLING SUMMARY

Start Depth	6450.00	Rotary Hours	20.50
End Depth	7093.00	Circulating Hours	0.00
Total Drilled:	643.00	Avg. Total ROP:	28.26
Total Rotary Drilled:	627.00	Avg. Rotary ROP:	30.59
Total Drilled Sliding:	16.00	Avg. Slide ROP:	7.11
Slide Hours:	2.25	Percent Rotary:	97.51
Below Rotary Hrs.	24.00	Percent Slide:	2.49

Drilling Parameters

WOB	14	Pick UP	82	Slack Off	65	SPM
RAB	73	SPP	950	FlowRate	416 - 416	122

Mud Data

Type				PV	4	SOLID	8.8
Weight	9.5	GAS	0	YP	3	BHT°	127
Viscosity	30	SAND	0.25	PH	8.5	Flow T°	0
Chlorides	62000	WL	0			Oil %	0

PERSONNEL

Lead Directional :	Martin Reedy
Second Directional :	Alan Caswell/Mike Martin
MWD Operator1	Dirk Lockard
MWD Operator2	
Directional Company:	Crescent Directional
Geologist:	
Company Man:	Lynn Rich

CASING

Size	Lb/ft	Set Depth

BHA

BHA # 1:Q5065, 6 1/2 7:8 3.0 Slow HR .155 rpg 1.5 ADJ, NMDC Pony , UBHO, NMDC, GAP Sub, NMDC, 2 DC, 16 jts 4 1/2 Hevi, ,

Signature:

Incl. In:	1.7	Azm. In:	160.2	Incl. Out:	1.3	Azm. Out:	111

Daily Cost	$8,450.00
Cummulative Cost:	$62,040.00

GENERAL COMMENT

Drill Ahead rotating

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
14-Oct-14	00:00	01:25	1.42	6450	6498	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
14-Oct-14	01:25	01:30	0.08	6498	6498	Survey & Conn.	Survey & Conn.@6448' Inc 1.8° Azm 149.3°
14-Oct-14	01:30	03:45	2.25	6498	6586	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
14-Oct-14	03:45	03:50	0.08	6586	6586	Survey & Conn.	Survey & Conn.@6536' Inc 1.6° Azm 146.6°
14-Oct-14	03:50	06:00	2.17	6586	6673	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
14-Oct-14	06:00	06:05	0.08	6673	6673	Survey & Conn.	Survey & Conn.@6623_Inc 1.7°_Azm 154.6°
14-Oct-14	06:05	08:15	2.17	6673	6719	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
14-Oct-14	08:15	10:30	2.25	6719	6735	Sliding	Sliding - (WOB:14;GPM :416;TFO:15))
14-Oct-14	10:30	11:25	0.92	6735	6761	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
14-Oct-14	11:25	11:30	0.08	6761	6761	Survey & Conn.	Survey & Conn.@6711_Inc 1.5°_Azm 144.9°
14-Oct-14	11:30	15:20	3.83	6761	6848	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
14-Oct-14	15:20	15:25	0.08	6848	6848	Survey & Conn.	Survey & Conn.@6798_Inc 1.2°_Azm 146.6°
14-Oct-14	15:25	16:05	0.67	6848	6848	Rig Service-Inhole	Rig Service-Inhole
14-Oct-14	16:05	18:45	2.67	6848	6935	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
14-Oct-14	18:45	18:50	0.08	6935	6935	Survey & Conn.	Survey & Conn.@6885_Inc 1.2°_Azm 146.6°
14-Oct-14	18:50	21:40	2.83	6935	7022	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
14-Oct-14	21:40	21:45	0.08	7022	7022	Survey & Conn.	Survey & Conn.@6972_Inc 1.3°_Azm 111°

RECEIVED: Feb. 11, 2015

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
14-Oct-14	**21:45**	**24:00**	2.25	**7022**	**7093**	**Drilling**	Drilling - (WOB:14;GPM :416;RPM:55)

RECEIVED: Feb. 11, 2015

CRESCENT DIRECTIONAL DRILLING

JOB NO.:	CA141895	Report Time:	2400	5 of 6
Company:	Finley Resources	API JOB #	43047544390000	
LOCATION:	Randlett	WORK ORDER#		
RIG NAME:	Capstar #329	FIELD:	Three Rivers	
STATE:	Utah	Township:	4S	
COUNTY:	Uintah	SECT\RANGE:	14	2E
WELL NAME:	Hackford 14-10A-4-2			

From Monday, October 13, 2014 at 0000 to Monday, October 13, 2014 at 2400

DRILLING SUMMARY

Start Depth	5415.00	Rotary Hours	19.17
End Depth	6450.00	Circulating Hours	0.00
Total Drilled:	1035.00	Avg. Total ROP:	46.52
Total Rotary Drilled:	988.00	Avg. Rotary ROP:	51.55
Total Drilled Sliding:	47.00	Avg. Slide ROP:	15.24
Slide Hours:	3.08	Percent Rotary:	95.46
Below Rotary Hrs.	24.00	Percent Slide:	4.54

Drilling Parameters

WOB	14	Pick UP	82	Slack Off	65	SPM	
RAB	73	SPP	950	FlowRate	416 - 416	122	

Mud Data

Type				PV	4	SOLID	8.8
Weight	9.5	GAS	0	YP	3	BHT°	127
Viscosity	30	SAND	0.25	PH	8.5	Flow T°	0
Chlorides	62000	WL	0			Oil %	0

PERSONNEL

Lead Directional :	Martin Reedy
Second Directional :	Alan Caswell/Mike Martin
MWD Operator1	Dirk Lockard
MWD Operator2	
Directional Company:	Crescent Directional
Geologist:	
Company Man:	Lynn Rich

CASING

Size	Lb/ft	Set Depth

BHA

BHA # 1:Q5065, 6 1/2 7:8 3.0 Slow HR .155 rpg 1.5 ADJ, NMDC Pony , UBHO, NMDC, GAP Sub, NMDC, 2 DC, 16 jts 4 1/2 Hevi, ,

Signature:

Incl. In:	1.4	Azm. In:	167.3	Incl. Out:	1.7	Azm. Out:	160.2

Daily Cost	$8,450.00
Cummulative Cost:	$53,590.00

GENERAL COMMENT

Drilling Ahead To Target

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
13-Oct-14	00:00	00:45	0.75	5415	5457	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
13-Oct-14	00:45	00:50	0.08	5457	5457	Survey & Conn.	Survey & Conn.@5407' Inc 1.8° Azm 177.3°
13-Oct-14	00:50	03:10	2.33	5457	5543	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
13-Oct-14	03:10	03:15	0.08	5543	5543	Survey & Conn.	Survey & Conn.@5493' Inc 1.5° Azm 174.2°
13-Oct-14	03:15	04:25	1.17	5543	5631	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
13-Oct-14	04:25	04:30	0.08	5631	5631	Survey & Conn.	Survey & Conn.@5581' Inc 1° Azm 181.8°
13-Oct-14	04:30	05:50	1.33	5631	5717	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
13-Oct-14	05:50	05:55	0.08	5717	5717	Survey & Conn.	Survey & Conn.@5667' Inc 1.7° Azm 178.4°
13-Oct-14	05:55	07:55	2.00	5717	5803	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
13-Oct-14	07:55	08:00	0.08	5803	5803	Survey & Conn.	Survey & Conn.@5753' Inc 1.7° Azm 176.2°
13-Oct-14	08:00	08:30	0.50	5803	5817	Sliding	Sliding - (WOB:14;GPM :416;TFO:30))
13-Oct-14	08:30	10:10	1.67	5817	5890	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
13-Oct-14	10:10	10:15	0.08	5890	5890	Survey & Conn.	Survey & Conn.@5840' Inc 1.5° Azm 143.9°
13-Oct-14	10:15	11:00	0.75	5890	5905	Sliding	Sliding - (WOB:14;GPM :416;TFO:30))
13-Oct-14	11:00	12:00	1.00	5905	5976	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
13-Oct-14	12:00	12:05	0.08	5976	5976	Survey & Conn.	Survey & Conn.@5926' Inc 1.2° Azm 147.5°
13-Oct-14	12:05	13:55	1.83	5976	5994	Sliding	Sliding - (WOB:14;GPM :416;TFO:15))

RECEIVED: Feb. 11, 2015

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
13-Oct-14	13:55	15:35	1.67	5994	6062	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
13-Oct-14	15:35	16:20	0.75	6062	6062	Rig Service-Inhole	Rig Service-Inhole
13-Oct-14	16:20	16:25	0.08	6062	6062	Survey & Conn.	Survey & Conn.@6012_Inc 1.5°_Azm 137.1°
13-Oct-14	16:25	18:05	1.67	6062	6149	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
13-Oct-14	18:05	18:10	0.08	6149	6149	Survey & Conn.	Survey & Conn.@6099_Inc 1.5°_Azm °
13-Oct-14	18:10	19:40	1.50	6149	6237	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
13-Oct-14	19:40	19:45	0.08	6237	6237	Survey & Conn.	Survey & Conn.@6187_Inc 1.4°_Azm 148.6°
13-Oct-14	19:45	21:30	1.75	6237	6324	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
13-Oct-14	21:30	21:35	0.08	6324	6324	Survey & Conn.	Survey & Conn.@6274_Inc 1.6°_Azm 157.7°
13-Oct-14	21:35	23:10	1.58	6324	6412	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
13-Oct-14	23:10	23:15	0.08	6412	6412	Survey & Conn.	Survey & Conn.@6362_Inc 1.7°_Azm 160.2°
13-Oct-14	23:15	24:00	0.75	6412	6450	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)

RECEIVED: Feb. 11, 2015

CRESCENT DIRECTIONAL DRILLING

JOB NO.:	CA141895	Report Time:	2400	4 of 4
Company:	Finley Resources	API JOB #	43047544390000	
LOCATION:	Randlett	WORK ORDER#		
RIG NAME:	Capstar #329	FIELD:	Three Rivers	
STATE:	Utah	Township:	4S	
COUNTY:	Uintah	SECT\RANGE:	14	2E
WELL NAME:	Hackford 14-10A-4-2			

From Sunday, October 12, 2014 at 0000 to Sunday, October 12, 2014 at 2400

DRILLING SUMMARY

Start Depth	4251.00	Rotary Hours	4.83
End Depth	4515.00	Circulating Hours	0.00
Total Drilled:	264.00	Avg. Total ROP:	54.62
Total Rotary Drilled:	264.00	Avg. Rotary ROP:	54.62
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA
Slide Hours:	0.00	Percent Rotary:	100.00
Below Rotary Hrs.	5.00	Percent Slide:	.00

Drilling Parameters

WOB	14	Pick UP	82	Slack Off	65	SPM	
RAB	73	SPP	950	FlowRate	416 - 416	122	

Mud Data

Type				PV	0	SOLID	0
Weight	0	GAS	0	YP	0	BHT°	0
Viscosity	0	SAND	0	PH	0	Flow T°	0
Chlorides	0	WL	0			Oil %	0

PERSONNEL

Lead Directional :	Martin Reedy
Second Directional :	Alan Caswell/Mike Martin
MWD Operator1	Dirk Lockard
MWD Operator2	
Directional Company:	Crescent Directional
Geologist:	
Company Man:	Lynn Rich

Incl. In:	1.2	Azm. In:	185.7	Incl. Out:	0	Azm. Out:	0

CASING

Size	Lb/ft	Set Depth

Signature:

BHA

BHA # 1:Q5065, 6 1/2 7:8 3.0 Slow HR .155 rpg 1.5 ADJ, NMDC Pony , UBHO, NMDC, GAP Sub, NMDC, 2 DC, 16 jts 4 1/2 Hevi, ,

Daily Cost	$8,450.00
Cummulative Cost:	$45,140.00

GENERAL COMMENT

Sliding and rotating to target.

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
12-Oct-14	00:00	01:35	1.58	4251	4329	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
12-Oct-14	01:35	01:40	0.08	4329	4329	Survey & Conn.	Survey & Conn.@4279_Inc 1.4°_Azm 177.8°
12-Oct-14	01:40	03:20	1.67	4329	4415	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
12-Oct-14	03:20	03:25	0.08	4415	4415	Survey & Conn.	Survey & Conn.@4365_Inc 1.5°_Azm 173.7°
12-Oct-14	03:25	05:00	1.58	4415	4515	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)

RECEIVED: Feb. 11, 2015

CRESCENT DIRECTIONAL DRILLING

JOB NO.:	CA141895	Report Time:	2400	3 of 4
Company:	Finley Resources	API JOB #	43047544390000	
LOCATION:	Randlett	WORK ORDER#		
RIG NAME:	Capstar #329	FIELD:	Three Rivers	
STATE:	Utah	Township:	4S	
COUNTY:	Uintah	SECT\RANGE:	14	2E
WELL NAME:	Hackford 14-10A-4-2			

From Saturday, October 11, 2014 at 0000 to Saturday, October 11, 2014 at 2400

DRILLING SUMMARY

Start Depth	2795.00	Rotary Hours	18.00
End Depth	4251.00	Circulating Hours	0.00
Total Drilled:	1450.00	Avg. Total ROP:	65.91
Total Rotary Drilled:	1305.00	Avg. Rotary ROP:	72.50
Total Drilled Sliding:	145.00	Avg. Slide ROP:	36.25
Slide Hours:	4.00	Percent Rotary:	90.00
Below Rotary Hrs.	24.00	Percent Slide:	10.00

Drilling Parameters

WOB	14	Pick UP	82	Slack Off	65	SPM	
RAB	73	SPP	950	FlowRate	410 - 416	122	

Mud Data

Type				PV	0	SOLID	0
Weight	0	GAS	0	YP	0	BHT°	0
Viscosity	0	SAND	0	PH	0	Flow T°	0
Chlorides	0	WL	0			Oil %	0

PERSONNEL

Lead Directional :	Martin Reedy
Second Directional :	Alan Caswell/Mike Martin
MWD Operator1	Dirk Lockard
MWD Operator2	
Directional Company:	Crescent Directional
Geologist:	
Company Man:	Lynn Rich

Incl. In:	9.5	Azm. In:	330.5	Incl. Out:	1.2

CASING

Size	Lb/ft	Set Depth

Signature:

Azm. Out:	185.7

BHA

BHA # 1:Q5065, 6 1/2 7:8 3.0 Slow HR .155 rpg 1.5 ADJ, NMDC Pony , UBHO, NMDC, GAP Sub, NMDC, 2 DC, 16 jts 4 1/2 Hevi, ,

Daily Cost	$8,450.00
Cummulative Cost:	$36,690.00

GENERAL COMMENT

Sliding and rotating for drop section.

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
11-Oct-14	00:00	00:25	0.42	2795	2853	Drilling	Drilling - (WOB:14;GPM :410;RPM:55)
11-Oct-14	00:25	00:30	0.08	2853	2853	Survey & Conn.	Survey & Conn.@2803' Inc 9.5° Azm 329.1°
11-Oct-14	00:30	00:50	0.33	2855	2870	Sliding	Sliding - (WOB:14;GPM :416;TFO:45))
11-Oct-14	00:50	01:20	0.50	2870	2940	Drilling	Drilling - (WOB:14;GPM :410;RPM:55)
11-Oct-14	01:20	01:25	0.08	2940	2940	Survey & Conn.	Survey & Conn.@2890' Inc 10.1° Azm 330.7°
11-Oct-14	01:25	01:40	0.25	2940	2954	Sliding	Sliding - (WOB:14;GPM :416;TFO:45R))
11-Oct-14	01:40	02:00	0.33	2954	2983	Drilling	Drilling - (WOB:14;GPM :410;RPM:55)
11-Oct-14	02:00	02:20	0.33	2983	2993	Sliding	Sliding - (WOB:14;GPM :416;TFO:0)
11-Oct-14	02:20	02:30	0.17	2993	3027	Drilling	Drilling - (WOB:14;GPM :410;RPM:55)
11-Oct-14	02:30	02:35	0.08	3027	3027	Survey & Conn.	Survey & Conn.@2977' Inc 11.6° Azm 334.1°
11-Oct-14	02:35	02:55	0.33	3027	3038	Sliding	Sliding - (WOB:14;GPM :416;TFO:180))
11-Oct-14	02:55	03:30	0.58	3038	3114	Drilling	Drilling - (WOB:14;GPM :410;RPM:55)
11-Oct-14	03:30	03:35	0.08	3114	3114	Survey & Conn.	Survey & Conn.@3064' Inc 10.5° Azm 338.9°
11-Oct-14	03:35	03:50	0.25	3118	3130	Sliding	Sliding - (WOB:14;GPM :416;TFO:180)
11-Oct-14	03:50	04:25	0.58	3130	3200	Drilling	Drilling - (WOB:14;GPM :410;RPM:55)
11-Oct-14	04:25	04:30	0.08	3200	3200	Survey & Conn.	Survey & Conn.@3150' Inc 9.1° Azm 337.3°
11-Oct-14	04:30	04:50	0.33	3200	3217	Sliding	Sliding - (WOB:14;GPM :416;TFO:180)

RECEIVED: Feb. 11, 2015

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
11-Oct-14	04:50	05:25	0.58	3217	3286	Drilling	Drilling - (WOB:14;GPM :410;RPM:55)
11-Oct-14	05:25	05:30	0.08	3286	3286	Survey & Conn.	Survey & Conn.@3236' Inc 7.2° Azm 332.4°
11-Oct-14	05:30	05:50	0.33	3286	3298	Sliding	Sliding - (WOB:14;GPM :416;TFO:180)
11-Oct-14	05:50	06:40	0.83	3298	3374	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
11-Oct-14	06:40	06:45	0.08	3374	3374	Survey & Conn.	Survey & Conn.@3324' Inc 6.9° Azm 331.4°
11-Oct-14	06:45	07:25	0.67	3374	3386	Sliding	Sliding - (WOB:14;GPM :416;TFO:180)
11-Oct-14	07:25	08:10	0.75	3386	3460	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
11-Oct-14	08:10	08:15	0.08	3460	3460	Survey & Conn.	Survey & Conn.@3410' Inc 3.6° Azm 309°
11-Oct-14	08:15	08:40	0.42	3460	3470	Sliding	Sliding - (WOB:14;GPM :416;TFO:180)
11-Oct-14	08:40	09:40	1.00	3470	3548	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
11-Oct-14	09:40	09:45	0.08	3548	3548	Survey & Conn.	Survey & Conn.@3498' Inc 2.5° Azm 275.8°
11-Oct-14	09:45	10:10	0.42	3548	3558	Sliding	Sliding - (WOB:14;GPM :416;TFO:180)
11-Oct-14	10:10	11:05	0.92	3558	3635	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
11-Oct-14	11:05	11:10	0.08	3635	3635	Survey & Conn.	Survey & Conn.@3585' Inc 1.7° Azm 260.6°
11-Oct-14	11:10	11:45	0.58	3635	3678	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
11-Oct-14	11:45	11:55	0.17	3678	3690	Sliding	Sliding - (WOB:14;GPM :416;TFO:180))
11-Oct-14	11:55	12:15	0.33	3690	3721	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
11-Oct-14	12:15	12:20	0.08	3721	3721	Survey & Conn.	Survey & Conn.@3671' Inc 1.6° Azm 254.5°
11-Oct-14	12:20	14:20	2.00	3721	3807	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
11-Oct-14	14:20	14:25	0.08	3807	3807	Survey & Conn.	Survey & Conn.@3757' Inc 0.9° Azm 280.4°
11-Oct-14	14:25	14:35	0.17	3807	3817	Sliding	Sliding - (WOB:14;GPM :416;TFO:110))
11-Oct-14	14:35	15:45	1.17	3817	3894	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
11-Oct-14	15:45	15:50	0.08	3894	3894	Survey & Conn.	Survey & Conn.@3844' Inc 1.2° Azm 182.4°
11-Oct-14	15:50	17:15	1.42	3894	3982	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
11-Oct-14	17:15	17:50	0.58	3982	3982	Rig Service-Inhole	Rig Service-Inhole
11-Oct-14	17:50	17:55	0.08	3982	3982	Survey & Conn.	Survey & Conn.@3932' Inc 1.2° Azm 191.2°
11-Oct-14	17:55	19:10	1.25	3982	4068	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
11-Oct-14	19:10	19:15	0.08	4068	4068	Survey & Conn.	Survey & Conn.@4018_Inc 1.5°_Azm °
11-Oct-14	19:15	21:05	1.83	4068	4155	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
11-Oct-14	21:05	21:10	0.08	4155	4155	Survey & Conn.	Survey & Conn.@4105_Inc 1.3°_Azm 177.4°
11-Oct-14	21:10	23:40	2.50	4155	4242	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
11-Oct-14	23:40	23:45	0.08	4242	4242	Survey & Conn.	Survey & Conn.@4192_Inc 1.2°_Azm 185.7°
11-Oct-14	23:45	24:00	0.25	4242	4251	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)

RECEIVED: Feb. 11, 2015

CRESCENT DIRECTIONAL DRILLING

JOB NO.:	CA141895	Report Time:	2400	2 of 3
Company:	Finley Resources	API JOB #	43047544390000	
LOCATION:	Randlett	WORK ORDER#		
RIG NAME:	Capstar #329	FIELD:	Three Rivers	
STATE:	Utah	Township:	4S	
COUNTY:	Uintah	SECT\RANGE:	14	2E
WELL NAME:	Hackford 14-10A-4-2			

From Friday, October 10, 2014 at 0000 to Friday, October 10, 2014 at 2400

DRILLING SUMMARY

Start Depth	945.00	Rotary Hours	16.00
End Depth	2795.00	Circulating Hours	0.00
Total Drilled:	1850.00	Avg. Total ROP:	94.07
Total Rotary Drilled:	1678.00	Avg. Rotary ROP:	104.88
Total Drilled Sliding:	172.00	Avg. Slide ROP:	46.91
Slide Hours:	3.67	Percent Rotary:	90.70
Below Rotary Hrs.	24.00	Percent Slide:	9.30

Drilling Parameters

WOB	14	Pick UP	80	Slack Off	60	SPM	
RAB	68	SPP	820	FlowRate	0 - 416	122	

Mud Data

Type				PV	0	SOLID	0
Weight	0	GAS	0	YP	0	BHT°	0
Viscosity	0	SAND	0	PH	0	Flow T°	0
Chlorides	0	WL	0			Oil %	0

PERSONNEL

Lead Directional :	Martin Reedy
Second Directional :	Alan Caswell/Mike Martin
MWD Operator1	Dirk Lockard
MWD Operator2	
Directional Company:	Crescent Directional
Geologist:	
Company Man:	Lynn Rich

Incl. In:	0.3	Azm. In:	142.2	Incl. Out:	9.5

CASING

Size	Lb/ft	Set Depth

Signature:

Azm. Out:	330.5

BHA

BHA # 1:Q5065, 6 1/2 7:8 3.0 Slow HR .155 rpg 1.5 ADJ, NMDC Pony , UBHO, NMDC, GAP Sub, NMDC, 2 DC, 16 jts 4 1/2 Hevi, ,

Daily Cost	$8,450.00
Cummulative Cost:	$28,240.00

GENERAL COMMENT

Drilling ahead in the build section.
Drilling ahead in Tanget in green river formation.
Sliding as needed

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
10-Oct-14	08:25	08:30	0.08	1550	1550	Survey & Conn.	Survey & Conn.@1500' Inc 7.8° Azm 331.7°
10-Oct-14	08:30	08:35	0.08	1550	1560	Sliding	Sliding - (WOB:14;GPM :416;TFO:345)
10-Oct-14	08:35	09:35	1.00	1560	1638	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	09:35	09:40	0.08	1638	1638	Survey & Conn.	Survey & Conn.@1588' Inc 8.4° Azm 329.8°
10-Oct-14	09:40	10:00	0.33	1638	1652	Sliding	Sliding - (WOB:14;GPM :416;TFO:-0))
10-Oct-14	10:00	10:45	0.75	1652	1725	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	00:00	01:15	1.25	0	0	Other	Slip & Cut
10-Oct-14	01:15	01:30	0.25	0	0	TIH	TIH
10-Oct-14	01:30	02:10	0.67	945	1009	Drilling Cement	Drilling - (WOB:10;GPM :326;RPM:55)
10-Oct-14	02:10	02:40	0.50	1009	1118	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	02:40	03:20	0.67	1118	1118	Survey & Conn.	Survey & Conn.@1068' Inc 0.3° Azm 142.2°
10-Oct-14	03:20	03:45	0.42	1118	1131	Sliding	Sliding - (WOB:14;GPM :416;TFO:330M))
10-Oct-14	03:45	04:20	0.58	1131	1204	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	04:20	04:40	0.33	1204	1217	Sliding	Sliding - (WOB:14;GPM :416;TFO:330M)
10-Oct-14	04:40	05:15	0.58	1217	1291	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	05:15	05:20	0.08	1291	1291	Survey & Conn.	Survey & Conn.@1241' Inc 2.5° Azm 341°
10-Oct-14	05:20	05:35	0.25	1291	1303	Sliding	Sliding - (WOB:14;GPM :416;TFO:330M))

RECEIVED: Feb. 11, 2015

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
10-Oct-14	05:35	06:20	0.75	1303	1376	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	06:20	06:25	0.08	1376	1376	Survey & Conn.	Survey & Conn.@1326' Inc 4.4° Azm 332.1°
10-Oct-14	06:25	06:35	0.17	1376	1389	Sliding	Sliding - (WOB:14;GPM :416;TFO:330M)
10-Oct-14	06:35	07:20	0.75	1389	1464	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	07:20	07:25	0.08	1464	1464	Survey & Conn.	Survey & Conn.@1414' Inc 6.3° Azm 332.8°
10-Oct-14	07:25	07:40	0.25	1464	1474	Sliding	Sliding - (WOB:14;GPM :416;TFO:330M))
10-Oct-14	07:40	08:25	0.75	1474	1550	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	10:45	10:50	0.08	1725	1725	Survey & Conn.	Survey & Conn.@1675' Inc 9.8° Azm 334.3°
10-Oct-14	10:50	11:20	0.50	1725	1739	Sliding	Sliding - (WOB:14;GPM :416;TFO:-0))
10-Oct-14	11:20	12:05	0.75	1739	1811	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	12:05	12:10	0.08	1811	1811	Survey & Conn.	Survey & Conn.@1761' Inc 10.8° Azm 335.6°
10-Oct-14	12:10	13:05	0.92	1811	1898	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	13:05	13:10	0.08	1898	1898	Survey & Conn.	Survey & Conn.@1848' Inc 11.6° Azm 336.5°
10-Oct-14	13:10	13:15	0.08	1898	1904	Sliding	Sliding - (WOB:14;GPM :416;TFO:-110))
10-Oct-14	13:15	14:05	0.83	1904	1985	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	14:05	14:10	0.08	1985	1985	Survey & Conn.	Survey & Conn.@1935' Inc 11.6° Azm 331.7°
10-Oct-14	14:10	14:50	0.67	1985	1985	Rig Service-Inhole	Rig Service-Inhole
10-Oct-14	14:50	15:40	0.83	1985	2071	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	15:40	15:45	0.08	2071	2071	Survey & Conn.	Survey & Conn.@2021' Inc 11.5° Azm 330.8°
10-Oct-14	15:45	16:50	1.08	2071	2158	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	16:50	16:55	0.08	2158	2158	Survey & Conn.	Survey & Conn.@2108' Inc 11° Azm 328.3°
10-Oct-14	16:55	17:05	0.17	2158	2168	Sliding	Sliding - (WOB:14;GPM :416;TFO:85))
10-Oct-14	17:05	17:55	0.83	2168	2245	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	17:55	18:00	0.08	2245	2245	Survey & Conn.	Survey & Conn.@2195' Inc 10.6° Azm 331.7°
10-Oct-14	18:00	18:15	0.25	2245	2254	Sliding	Sliding - (WOB:14;GPM :416;TFO:0))
10-Oct-14	18:15	19:15	1.00	2254	2331	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	19:15	19:20	0.08	2331	2331	Survey & Conn.	Survey & Conn.@2281_Inc 11.6°_Azm 331.9°
10-Oct-14	19:20	20:20	1.00	2331	2417	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	20:20	20:25	0.08	2417	2417	Survey & Conn.	Survey & Conn.@2367_Inc 11.3°_Azm 330.4°
10-Oct-14	20:25	21:10	0.75	2417	2505	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	21:10	21:15	0.08	2505	2505	Survey & Conn.	Survey & Conn.@2455_Inc 10.5°_Azm 328°
10-Oct-14	21:15	21:30	0.25	2505	2515	Sliding	Sliding - (WOB:14;GPM :416;TFO:0))
10-Oct-14	21:30	22:10	0.67	2515	2591	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	22:10	22:15	0.08	2591	2591	Survey & Conn.	Survey & Conn.@2541_Inc 10.3°_Azm 330.8°
10-Oct-14	22:15	22:25	0.17	2591	2602	Sliding	Sliding - (WOB:14;GPM :416;TFO:0))
10-Oct-14	22:25	22:50	0.42	2602	2678	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	22:50	22:55	0.08	2678	2678	Survey & Conn.	Survey & Conn.@2628_Inc 9.6°_Azm °
10-Oct-14	22:55	23:10	0.25	2678	2691	Sliding	Sliding - (WOB:14;GPM :416;TFO:0))
10-Oct-14	23:10	23:35	0.42	2691	2765	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)
10-Oct-14	23:35	23:40	0.08	2765	2765	Survey & Conn.	Survey & Conn.@2715_Inc 9.5°_Azm 330.5°
10-Oct-14	23:40	23:50	0.17	2765	2779	Sliding	Sliding - (WOB:14;GPM :416;TFO:0)
10-Oct-14	23:50	24:00	0.17	2779	2795	Drilling	Drilling - (WOB:14;GPM :416;RPM:55)

RECEIVED: Feb. 11, 2015

CRESCENT DIRECTIONAL DRILLING

JOB NO.:	CA141895	Report Time:	2400	1 of 2
Company:	Finley Resources	API JOB #	43047544390000	
LOCATION:	Randlett	WORK ORDER#		
RIG NAME:	Capstar #329	FIELD:	Three Rivers	
STATE:	Utah	Township:	4S	
COUNTY:	Uintah	SECT\RANGE:	14	2E
WELL NAME:	Hackford 14-10A-4-2			

From Thursday, October 09, 2014 at 0000 to Thursday, October 09, 2014 at 2400

DRILLING SUMMARY

Start Depth	0.00	Rotary Hours	0.00
End Depth	0.00	Circulating Hours	0.00
Total Drilled:	0.00	Avg. Total ROP:	NA
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA
Slide Hours:	0.00	Percent Rotary:	NA
Below Rotary Hrs.	1.67	Percent Slide:	NA

Drilling Parameters

WOB	0	Pick UP	0	Slack Off	0	SPM	
RAB	0	SPP	0	FlowRate	0 - 0	0	

Mud Data

Type				PV	0	SOLID	0
Weight	0	GAS	0	YP	0	BHT°	0
Viscosity	0	SAND	0	PH	0	Flow T°	0
Chlorides	0	WL	0			Oil %	0

PERSONNEL

Lead Directional :	Martin Reedy
Second Directional :	Alan Caswell/Mike Martin
MWD Operator1	Dirk Lockard
MWD Operator2	
Directional Company:	Crescent Directional
Geologist:	
Company Man:	Lynn Rich

CASING

Size	Lb/ft	Set Depth

Signature:

BHA

BHA # 1:Q5065, 6 1/2 7:8 3.0 Slow HR .155 rpg 1.5 ADJ, NMDC Pony , UBHO, NMDC, GAP Sub, NMDC, 2 DC, 4 1/2 Hevi, ,

Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0

Daily Cost	$19,790.00
Cummulative Cost:	$19,790.00

GENERAL COMMENT

Rig up, P/U BHA #1, TIH.

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
9-Oct-14	00:00	22:20	22.33	0	0	Standby	Standby
9-Oct-14	22:20	23:00	0.67	0	0	Change BHA	Change BHA
9-Oct-14	23:00	24:00	1.00	0	0	TIH	TIH

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Well Information

BHA # 1

SDI Job #:	CA141895	**FIELD:**	Three Rivers
COMPANY:	Finley Resources	**Sec-Twn-Rng:**	4S
LOCATION:	Randlett	**PO #/ DISTRICT**	14 2E
RIG NAME:	Capstar #329	**Lead DD:**	Martin Reedy
STATE:	Utah	**Co. Man:**	Lynn Rich
COUNTY:	Uintah	**BHA TYPE:**	Steerable Assembly
WELL NAME:	Hackford 14-10A-4-2		

BHA Summary Information

TIME IN - OUT		Rotary Hours	117.42	Start Depth	945.00	RPM Range	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only	132.67 / 1.92	End Depth	7489.00		
09-Oct-14 @ 23:00	16-Oct-14 @ 05:00	Slide Hours	13.33	Percent Rotary:	93.93	55 -55	326 -416
		Below Rotary Hrs.	150.00	Percent Slide:	6.07		

				Incl.		Azimuth	
Total Drilled:	6538.00	Avg. Total ROP:	50.00	IN	OUT	IN	OUT
Total Rotary Drilled:	6141.00	Avg. Rotary ROP:	52.30				
Total Drilled Sliding:	397.00	Avg. Slide ROP:	29.78	.0	.0	.00	.00

SPP	505 -950	Weights	SO	0 -65	PU	0 -82	RAB	0 -73	Reason POOH	

Bit Data

Baker	Q5065
Type Bit	PDC
TFA	1.178

JETS					
	16	16	16	16	16
	16	0	0	0	0

Bit Coding						IADC#
IR	OR	DL	Loc	BS	G	ODL
0	0					

Bit Drop: 109 PSI @ 416 GPM

Motor Data

6.5 7:8 3.0 Slow HR .155 rpg 1.5 ADJ

Model:		Pad OD	
MFG.	Crescent		7.12
Bend °	1.5	Stator/Rotor	7:8
Bit to Bend	6.15	Motor Diff	
Rev/GAL	0.155		
NB Stab	0		
Rotor Jet	0		

Sensor Offsets			
Sensor	50	Sonic	0
Gamma	0	DNSC	0
Restiv	0	GYRO	0

Mud Data

Type							
WT	9.5	GAS	0	Solids	8.8		
Vis	30	SAND	0.25	T °	0		
PV	4	PH	8.5	Chlor	62000		
YP	3	WL	0	Oil %	0		
				BHT°	127		

Pumps	PUMP1	PUMP1
NAME		
Model		
Type		
Liner	.00	.00
Stroke	.00	.00
Efficency	.00	.00

Comments

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	Q5065	7152889		7.875	1.00	1.00	4 1/2 REGP
2	6 1/2 7:8 3.0 Slow HR .155 rpg 1.5 ADJ	CD65067		6.52	26.52	27.52	4 1/2 XHB
3	NMDC Pony	SD44840	2 3/8	6.5	9.80	37.32	4 1/2 XHB
4	UBHO	CD650164	3 1/4	6.5	2.80	40.12	4 1/2 XHB
5	NMDC	SD411957	2 3/8	6 1/2	22.00	62.12	4 1/2 XHB
6	GAP Sub	CGS650610	3 1/4	6 1/2	4.16	66.28	4 1/2 XHB
7	NMDC	SD46219	2 3/8	6 1/2	28.13	94.41	4 1/2 XHB
8	2 DC	RIG	2 3/8	6 3/16	59.66	154.07	4 1/2 XHB
9	16 jts 4 1/2 Hevi	HWDP-2.75-	2.75	4.5	488.13	642.20	4 1/2 XHB
10					0.00	642.20	

Winsurv2 BHA Report - License:NP3209

CRESCENT DIRECTIONAL DRILLING

SDI Job #:	CA141895
COMPANY:	Finley Resources
LOCATION:	Randlett
RIG NAME:	Capstar #329
STATE:	Utah
COUNTY:	Country
WELL NAME:	Hackford 14-10A-4-2

FIELD:	Three Rivers
Sec-Twn-Rng:	4S
SD District	2E

MOTOR INFORMATION

Desc: 6.5 7:8 3.0 Slow HR .155 rpg 1.5 ADJ

Bent Hsg/Sub: 1.5 / 0 **Bit to Bend: 6.15**

PAD OD: 7.12 **NB Stab:**

Slide Report for all BHA's in Job: CA141895

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	10-Oct	Drilling	02:10	02:40	0.50	1009	1118	109	14	218.0	55	6500	416	800		0.54	2.73	1.58	
1	10-Oct	Sliding	03:20	03:45	0.42	1118	1131	13	14	31.2	55	6500	416	800	330M	0.74	358.80	1.58	
1	10-Oct	Drilling	03:45	04:20	0.58	1131	1204	73	14	125.1	55	6500	416	800		1.89	344.52	1.68	
1	10-Oct	Sliding	04:20	04:40	0.33	1204	1217	13	14	39.0	55	6500	416	800	330M	2.11	343.05	1.68	
1	10-Oct	Drilling	04:40	05:15	0.58	1217	1291	74	14	126.9	55	6500	416	800		3.61	334.63	2.32	
1	10-Oct	Sliding	05:20	05:35	0.25	1291	1303	12	14	48.0	55	6500	416	800	330M	3.88	333.65	2.32	
1	10-Oct	Drilling	05:35	06:20	0.75	1303	1376	73	14	97.3	55	6500	416	800		5.48	332.56	2.16	
1	10-Oct	Sliding	06:25	06:35	0.17	1376	1389	13	14	78.0	55	6500	416	800	330M	5.76	332.65	2.16	
1	10-Oct	Drilling	06:35	07:20	0.75	1389	1464	75	14	100.0	55	6500	416	800		7.17	332.10	1.75	
1	10-Oct	Sliding	07:25	07:40	0.25	1464	1474	10	14	40.0	55	6500	416	800	345	7.35	331.99	1.75	
1	10-Oct	Drilling	07:40	08:25	0.75	1474	1550	76	14	101.3	55	6500	416	800		8.14	330.59	0.75	
1	10-Oct	Sliding	08:30	08:35	0.08	1550	1560	10	14	120.0	55	6500	416	800	345	8.21	330.37	0.75	
1	10-Oct	Drilling	08:35	09:35	1.00	1560	1638	78	14	78.0	55	6500	416	800		9.20	332.55	1.80	
1	10-Oct	Sliding	09:40	10:00	0.33	1638	1652	14	14	42.0	55	6500	416	800	15	9.42	333.24	1.80	
1	10-Oct	Drilling	10:00	10:45	0.75	1652	1725	73	14	97.3	55	6500	416	800		10.38	335.09	1.19	
1	10-Oct	Sliding	10:50	11:20	0.50	1725	1739	14	14	28.0	55	6500	416	800		10.54	335.29	1.19	
1	10-Oct	Drilling	11:20	12:05	0.75	1739	1811	72	14	96.0	55	6500	416	800		11.26	336.13	0.94	
1	10-Oct	Drilling	12:10	13:05	0.92	1811	1898	87	14	94.9	55	6500	416	800		11.59	333.74	1.11	
1	10-Oct	Sliding	13:10	13:15	0.08	1898	1904	6	14	72.0	55	6500	416	800	-110	11.59	333.41	1.11	
1	10-Oct	Drilling	13:15	14:05	0.83	1904	1985	81	14	97.2	55	6500	416	800		11.54	331.18	0.24	
1	10-Oct	Drilling	14:50	15:40	0.83	1985	2071	86	14	103.2	55	6500	416	800		11.21	329.39	0.80	
1	10-Oct	Drilling	15:45	16:50	1.08	2071	2158	87	14	80.3	55	6500	416	800		10.77	330.22	0.86	
1	10-Oct	Sliding	16:55	17:05	0.17	2158	2168	10	14	60.0	55	6500	416	820	85	10.72	330.62	0.86	
1	10-Oct	Drilling	17:05	17:55	0.83	2168	2245	77	14	92.4	55	6500	416	820		11.18	331.82	1.16	
1	10-Oct	Sliding	18:00	18:15	0.25	2245	2254	9	14	36.0	55	6500	416	820	30	11.29	331.84	1.16	
1	10-Oct	Drilling	18:15	19:15	1.00	2254	2331	77	14	77.0	55	6500	416	820		11.42	331.04	0.49	

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Slide Report for all BHA's in Job: CA141895

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#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	10-Oct	Drilling	19:20	20:20	1.00	2331	2417	86	14	86.0	55	6500	416	820		10.84	329.08	1.05	
1	10-Oct	Drilling	20:25	21:10	0.75	2417	2505	88	14	117.3	55	6500	416	820		10.38	329.62	0.63	
1	10-Oct	Sliding	21:15	21:30	0.25	2505	2515	10	14	40.0	55	6500	416	820	45	10.36	329.94	0.63	
1	10-Oct	Drilling	21:30	22:10	0.67	2515	2591	76	14	114.0	55	6500	416	820		9.90	330.41	0.82	
1	10-Oct	Sliding	22:15	22:25	0.17	2591	2602	11	14	66.0	55	6500	416	820	40	9.81	330.32	0.82	
1	10-Oct	Drilling	22:25	22:50	0.42	2602	2678	76	14	182.4	55	6500	416	820		9.54	330.33	0.14	
1	10-Oct	Sliding	22:55	23:10	0.25	2678	2691	13	14	52.0	55	6500	416	820	45	9.53	330.39	0.14	
1	10-Oct	Drilling	23:10	23:35	0.42	2691	2765	74	14	177.6	55	6500	416	820		9.50	329.70	0.26	
1	10-Oct	Sliding	23:40	23:50	0.17	2765	2779	14	14	84.0	55	6500	416	820	45	9.50	329.48	0.26	
1	10-Oct	Drilling	23:50	24:00	0.17	2779	2795	16	14	96.0	55	6500	416	820		9.50	329.23	0.26	
1	11-Oct	Drilling	00:00	00:25	0.42	2795	2853	58	14	139.2	55	9000	410	950		9.84	330.04	0.76	
1	11-Oct	Sliding	00:30	00:50	0.33	2855	2870	15	14	45.0	55	9000	416	950	45	9.96	330.35	0.76	
1	11-Oct	Drilling	00:50	01:20	0.50	2870	2940	70	14	140.0	55	9000	410	950		10.96	332.77	1.87	
1	11-Oct	Sliding	01:25	01:40	0.25	2940	2954	14	14	56.0	55	9000	416	950	45	11.20	333.29	1.87	
1	11-Oct	Drilling	01:40	02:00	0.33	2954	2983	29	14	87.0	55	9000	410	950		11.52	334.40	1.65	
1	11-Oct	Sliding	02:00	02:20	0.33	2983	2993	10	14	30.0	55	9000	416	950	75	11.39	334.91	1.65	
1	11-Oct	Drilling	02:20	02:30	0.17	2993	3027	34	14	204.0	55	9000	410	950		10.96	336.74	1.65	
1	11-Oct	Sliding	02:35	02:55	0.33	3027	3038	11	14	33.0	55	9000	416	950	180	10.82	337.37	1.65	
1	11-Oct	Drilling	02:55	03:30	0.58	3038	3114	76	14	130.3	55	9000	410	950		9.69	338.03	1.66	
1	11-Oct	Sliding	03:35	03:50	0.25	3118	3130	12	14	48.0	55	9000	416	950	180	9.42	337.71	1.66	
1	11-Oct	Drilling	03:50	04:25	0.58	3130	3200	70	14	120.0	55	9000	410	950		7.99	334.73	2.35	
1	11-Oct	Sliding	04:30	04:50	0.33	3200	3217	17	14	51.0	55	9000	416	950	180	7.61	333.69	2.35	
1	11-Oct	Drilling	04:50	05:25	0.58	3217	3286	69	14	118.3	55	9000	410	950		7.03	331.84	0.37	
1	11-Oct	Sliding	05:30	05:50	0.33	3286	3298	12	14	36.0	55	9000	416	950	180	6.99	331.70	0.37	
1	11-Oct	Drilling	05:50	06:40	0.83	3298	3374	76	14	91.2	55	9000	416	950	180	4.89	322.00	4.45	
1	11-Oct	Sliding	06:45	07:25	0.67	3374	3386	12	14	18.0	55	9000	416	950	180	4.44	318.51	4.45	
1	11-Oct	Drilling	07:25	08:10	0.75	3386	3460	74	14	98.7	55	9000	416	950		2.85	293.17	2.31	
1	11-Oct	Sliding	08:15	08:40	0.42	3460	3470	10	14	24.0	55	9000	416	950	180	2.74	289.05	2.31	
1	11-Oct	Drilling	08:40	09:40	1.00	3470	3548	78	14	78.0	55	9000	416	950	180	2.02	268.52	1.11	
1	11-Oct	Sliding	09:45	10:10	0.42	3548	3558	10	14	24.0	55	9000	416	950	180	1.93	266.64	1.11	
1	11-Oct	Drilling	10:10	11:05	0.92	3558	3635	77	14	84.0	55	9000	416	950		1.64	257.14	0.23	
1	11-Oct	Drilling	11:10	11:45	0.58	3635	3678	43	14	73.7	55	9000	416	950		1.54	255.69	1.03	
1	11-Oct	Sliding	11:45	11:55	0.17	3678	3690	12	14	72.0	55	9000	416	950	60	1.43	257.99	1.03	
1	11-Oct	Drilling	11:55	12:15	0.33	3690	3721	31	14	93.0	55	9000	416	950		1.16	265.83	1.03	
1	11-Oct	Drilling	12:20	14:20	2.00	3721	3807	86	14	43.0	55	9000	416	950		0.74	213.18	1.84	

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#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	11-Oct	Sliding	14:25	14:35	0.17	3807	3817	10	14	60.0	55	9000	416	950	110	0.84	201.73	1.84	
1	11-Oct	Drilling	14:35	15:45	1.17	3817	3894	77	14	66.0	55	9000	416	950		1.20	187.40	0.21	
1	11-Oct	Drilling	15:50	17:15	1.42	3894	3982	88	14	62.1	55	9000	416	950		1.37	185.61	0.42	
1	11-Oct	Drilling	17:55	19:10	1.25	3982	4068	86	14	68.8	55	9000	416	950		1.38	179.70	0.27	
1	11-Oct	Drilling	19:15	21:05	1.83	4068	4155	87	14	47.5	55	9000	416	950		1.24	182.01	0.24	
1	11-Oct	Drilling	21:10	23:40	2.50	4155	4242	87	14	34.8	55	9000	416	950		1.31	180.86	0.31	
1	11-Oct	Drilling	23:45	24:00	0.25	4242	4251	9	14	36.0	55	9000	416	950		1.33	180.08	0.31	
1	12-Oct	Drilling	00:00	01:35	1.58	4251	4329	78	14	49.3	55	9000	416	950		1.46	175.35	0.17	
1	12-Oct	Drilling	01:40	03:20	1.67	4329	4415	86	14	51.6	55	9000	416	950		1.56	175.49	0.15	
1	12-Oct	Drilling	03:25	04:35	1.17	4415	4505	90	14	77.1	55	9000	416	950		1.54	177.61	0.12	
1	12-Oct	Drilling	04:40	06:35	1.92	4505	4588	83	14	43.3	55	9000	416	950		1.50	177.28	0.05	
1	12-Oct	Drilling	06:40	08:50	2.17	4588	4675	87	14	40.2	55	9000	416	950		1.56	176.48	0.12	
1	12-Oct	Drilling	08:55	10:45	1.83	4675	4762	87	14	47.5	55	9000	416	950		1.66	178.05	0.15	
1	12-Oct	Drilling	10:50	12:25	1.58	4762	4849	87	14	54.9	55	9000	416	950		1.75	184.02	0.31	
1	12-Oct	Drilling	12:30	14:00	1.50	4849	4935	86	14	57.3	55	9000	416	950		1.97	184.73	0.38	
1	12-Oct	Drilling	14:05	15:25	1.33	4935	5022	87	14	65.3	55	9000	416	950		1.41	183.87	1.38	
1	12-Oct	Sliding	15:30	15:45	0.25	5022	5034	12	14	48.0	55	9000	416	950	25	1.24	184.18	1.38	
1	12-Oct	Drilling	15:45	17:05	1.33	5034	5109	75	14	56.3	55	9000	416	950		1.04	166.53	0.69	
1	12-Oct	Sliding	17:35	17:40	0.08	5109	5114	5	14	60.0	55	9000	416	950	50	1.06	164.98	0.69	
1	12-Oct	Drilling	17:40	19:05	1.42	5114	5196	82	14	57.9	55	9000	416	950		1.25	162.60	0.29	
1	12-Oct	Drilling	19:10	21:05	1.92	5196	5283	87	14	45.4	55	9000	416	950		1.36	167.14	0.12	
1	12-Oct	Drilling	21:10	22:55	1.75	5283	5370	87	14	49.7	55	9000	416	950		1.62	173.65	0.56	
1	12-Oct	Drilling	23:00	24:00	1.00	5370	5415	45	14	45.0	55	9000	416	950		1.77	177.06	0.36	
1	13-Oct	Drilling	00:00	00:45	0.75	5415	5457	42	14	56.0	55	9000	416	950		1.62	175.64	0.36	
1	13-Oct	Drilling	00:50	03:10	2.33	5457	5543	86	14	36.9	55	9000	416	950		1.21	177.75	0.60	
1	13-Oct	Drilling	03:15	04:25	1.17	5543	5631	88	14	75.4	55	9000	416	950		1.41	179.41	0.82	
1	13-Oct	Drilling	04:30	05:50	1.33	5631	5717	86	14	64.5	55	9000	416	950		1.70	177.12	0.08	
1	13-Oct	Drilling	05:55	07:55	2.00	5717	5803	86	14	43.0	55	9000	416	950		1.52	158.59	1.05	
1	13-Oct	Sliding	08:00	08:30	0.50	5803	5817	14	14	28.0	55	9000	416	950	30	1.50	153.10	1.05	
1	13-Oct	Drilling	08:30	10:10	1.67	5817	5890	73	14	43.8	55	9000	416	950		1.32	145.79	0.36	
1	13-Oct	Sliding	10:15	11:00	0.75	5890	5905	15	14	20.0	55	9000	416	950	30	1.27	146.46	0.36	
1	13-Oct	Drilling	11:00	12:00	1.00	5905	5976	71	14	71.0	55	9000	416	950		1.37	140.90	0.45	
1	13-Oct	Sliding	12:05	13:55	1.83	5976	5994	18	14	9.8	55	9000	416	950	15	1.43	138.91	0.45	
1	13-Oct	Drilling	13:55	15:35	1.67	5994	6062	68	14	40.8	55	9000	416	950	15	1.50	138.25	0.06	
1	13-Oct	Drilling	16:25	18:05	1.67	6062	6149	87	14	52.2	55	9000	416	950		1.44	144.34	0.30	

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#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	13-Oct	Drilling	18:10	19:40	1.50	6149	6237	88	14	58.7	55	9000	416	950		1.51	154.13	0.36	
1	13-Oct	Drilling	19:45	21:30	1.75	6237	6324	87	14	49.7	55	9000	416	950		1.66	154.61	0.21	
1	13-Oct	Drilling	21:35	23:10	1.58	6324	6412	88	14	55.6	55	9000	416	950		1.76	150.55	0.16	
1	13-Oct	Drilling	23:15	24:00	0.75	6412	6450	38	14	50.7	55	9000	416	950		1.80	149.25	0.24	
1	14-Oct	Drilling	00:00	01:25	1.42	6450	6498	48	14	33.9	55	9000	416	950		1.69	147.84	0.24	
1	14-Oct	Drilling	01:30	03:45	2.25	6498	6586	88	14	39.1	55	9000	416	950		1.65	151.32	0.29	
1	14-Oct	Drilling	03:50	06:00	2.17	6586	6673	87	14	40.2	55	9000	416	950		1.58	149.39	0.38	
1	14-Oct	Drilling	06:05	08:15	2.17	6673	6719	46	14	21.2	55	9000	416	950		1.46	142.53	0.94	
1	14-Oct	Sliding	08:15	10:30	2.25	6719	6735	16	14	7.1	55	9000	416	950	15	1.38	137.35	0.94	
1	14-Oct	Drilling	10:30	11:25	0.92	6735	6761	26	14	28.4	55	9000	416	950		1.27	127.69	0.94	
1	14-Oct	Drilling	11:30	15:20	3.83	6761	6848	87	14	22.7	55	9000	416	950		1.20	113.35	0.06	
1	14-Oct	Drilling	16:05	18:45	2.67	6848	6935	87	14	32.6	55	9000	416	950		1.26	112.42	0.14	
1	14-Oct	Drilling	18:50	21:40	2.83	6935	7022	87	14	30.7	55	9000	416	950		1.30	116.00	0.23	
1	14-Oct	Drilling	21:45	24:00	2.25	7022	7093	71	14	31.6	55	9000	416	950		0.00	0.00	0.00	
1	15-Oct	Drilling	00:00	01:05	1.08	7093	7108	15	14	13.8	55	9000	416	950		0.00	0.00	0.00	
1	15-Oct	Drilling	01:10	05:25	4.25	7108	7195	87	14	20.5	55	9000	416	950		0.00	0.00	0.00	
1	15-Oct	Drilling	05:30	11:20	5.83	7195	7283	88	14	15.1	55	9000	416	950		0.00	0.00	0.00	
1	15-Oct	Drilling	11:25	16:10	4.75	7283	7369	86	14	18.1	55	9000	416	950		0.00	0.00	0.00	
1	15-Oct	Drilling	16:15	20:40	4.42	7369	7457	88	14	19.9	55	9000	416	950		0.00	0.00	0.00	
1	15-Oct	Drilling	20:45	22:00	1.25	7457	7489	32	14	25.6	55	9000	416	950		0.00	0.00	0.00	

Total Drilled:	6538	**Avg. Total ROP:**	50.00		**DEPTH% - TIME %**
Total Rotary Drilled:	6141	**Avg. Rotary ROP:**	52.30	**Percent Rotary:**	93.93 - 89.80
Total Drilled Sliding:	397	**Avg. Slide ROP:**	29.78	**Percent Slide:**	6.07 - 10.20

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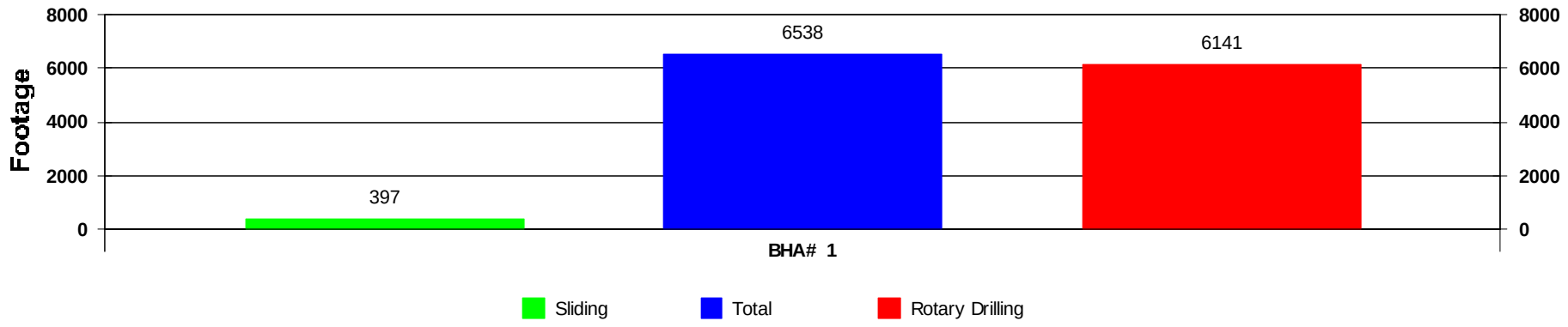
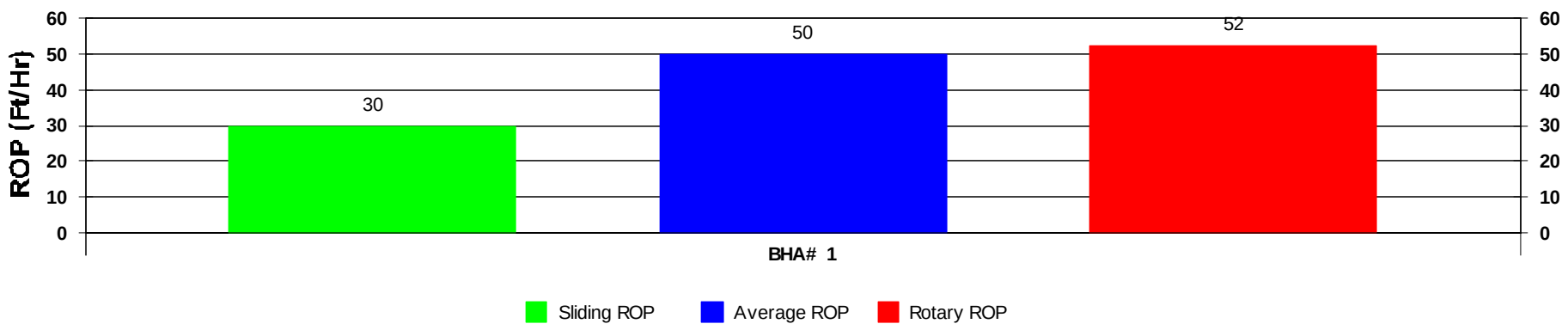
SDI Job #:	CA141895	FIELD:	Three Rivers	
COMPANY:	Finley Resources	Sec-Twn-Rng:	4S	
LOCATION:	Randlett	AFE# & District	14	2E
RIG NAME:	Capstar #329	COMMENT		
STATE:	Utah			
COUNTY:	Uintah			
WELL NAME:	Hackford 14-10A-4-2			

Footage Drilled with BHA



ROP vs BHA



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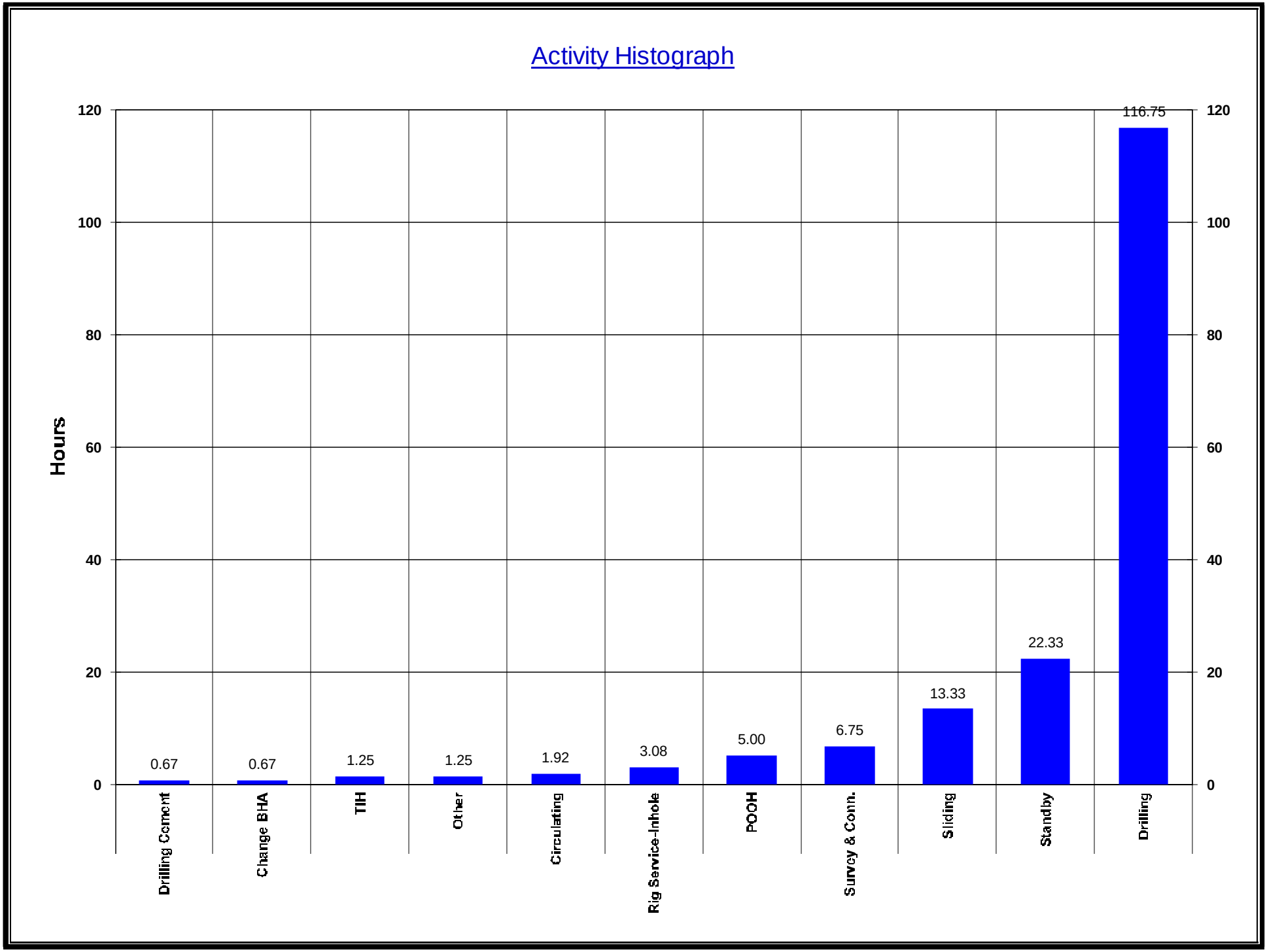

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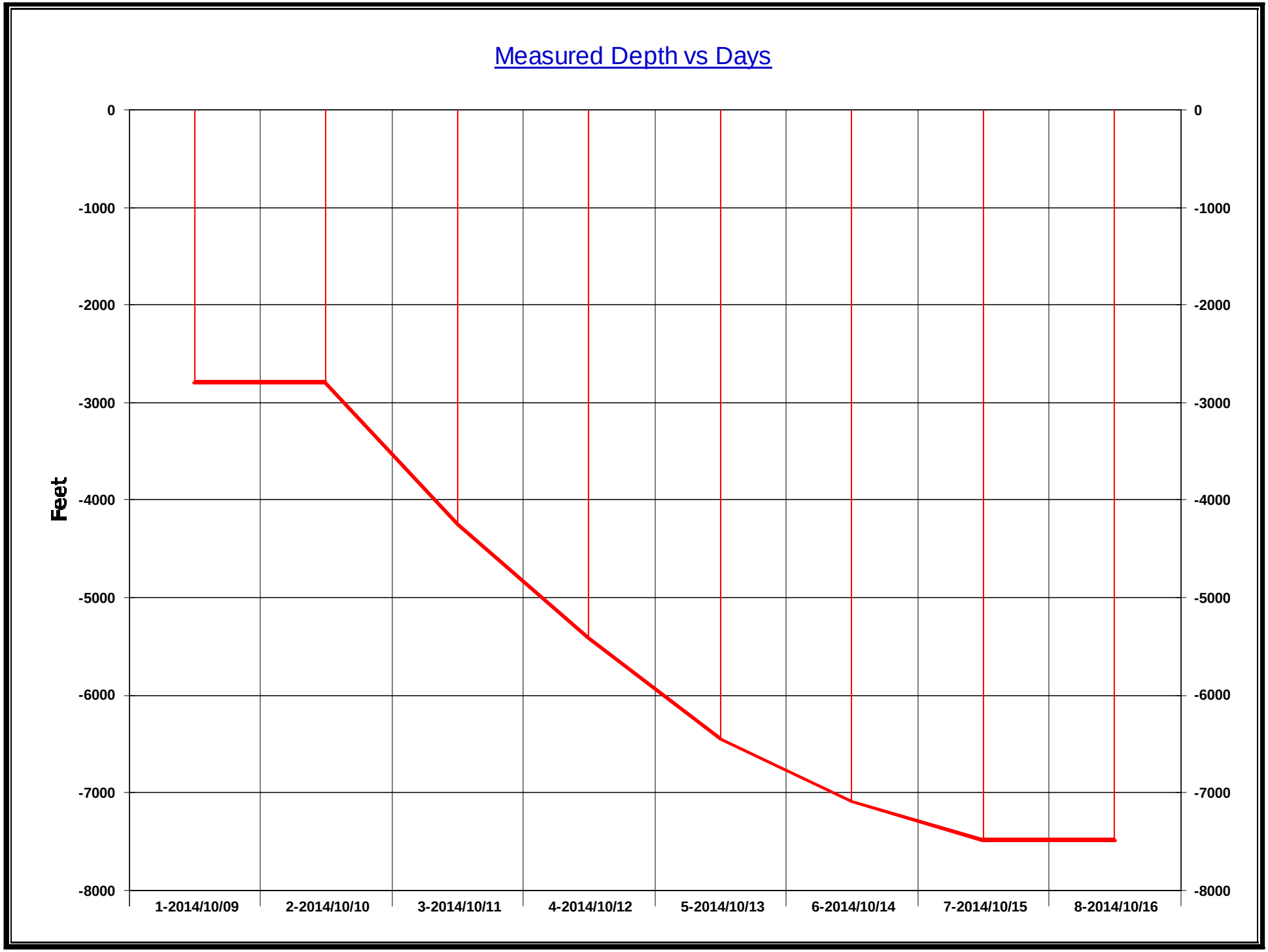

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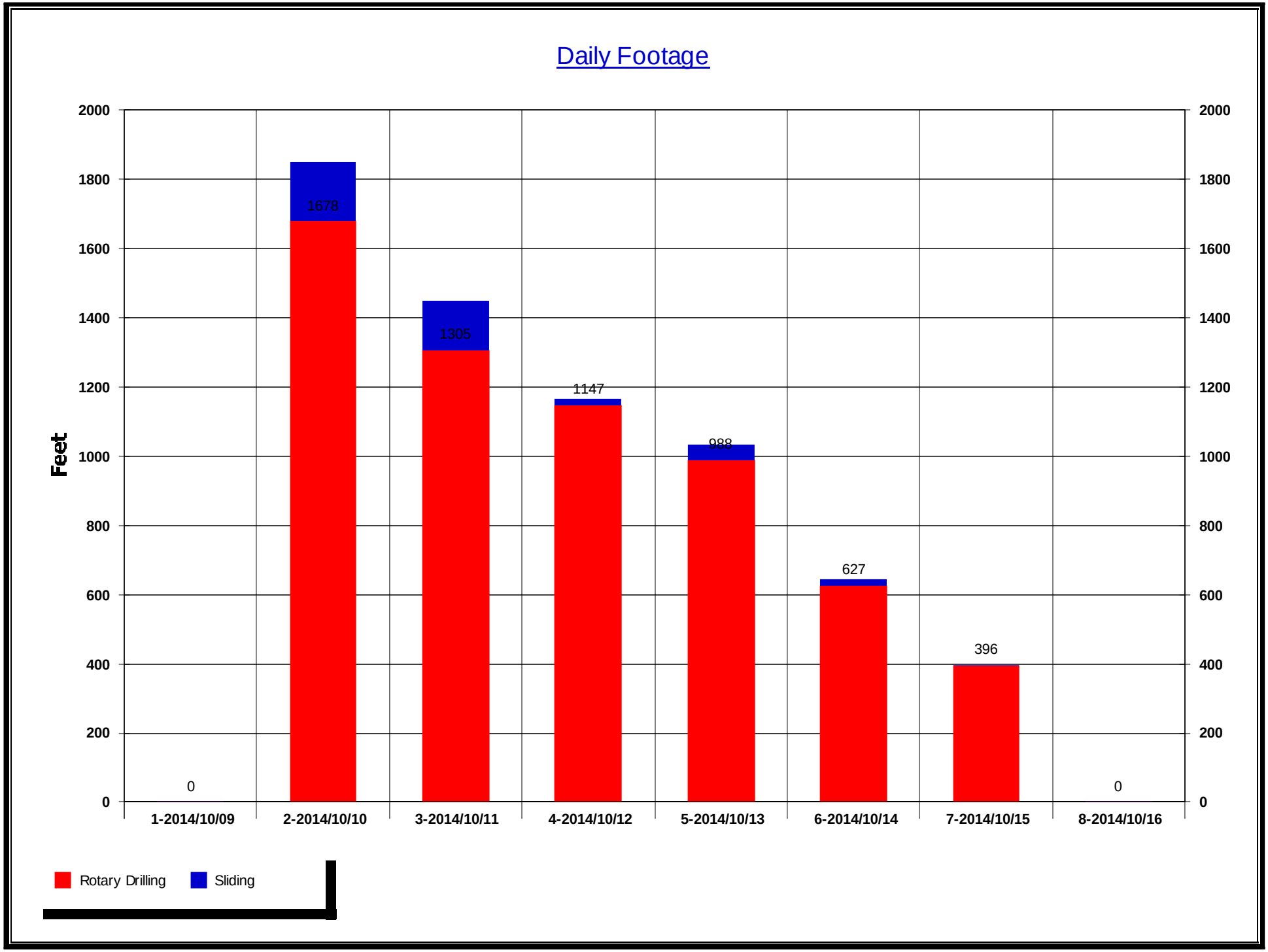

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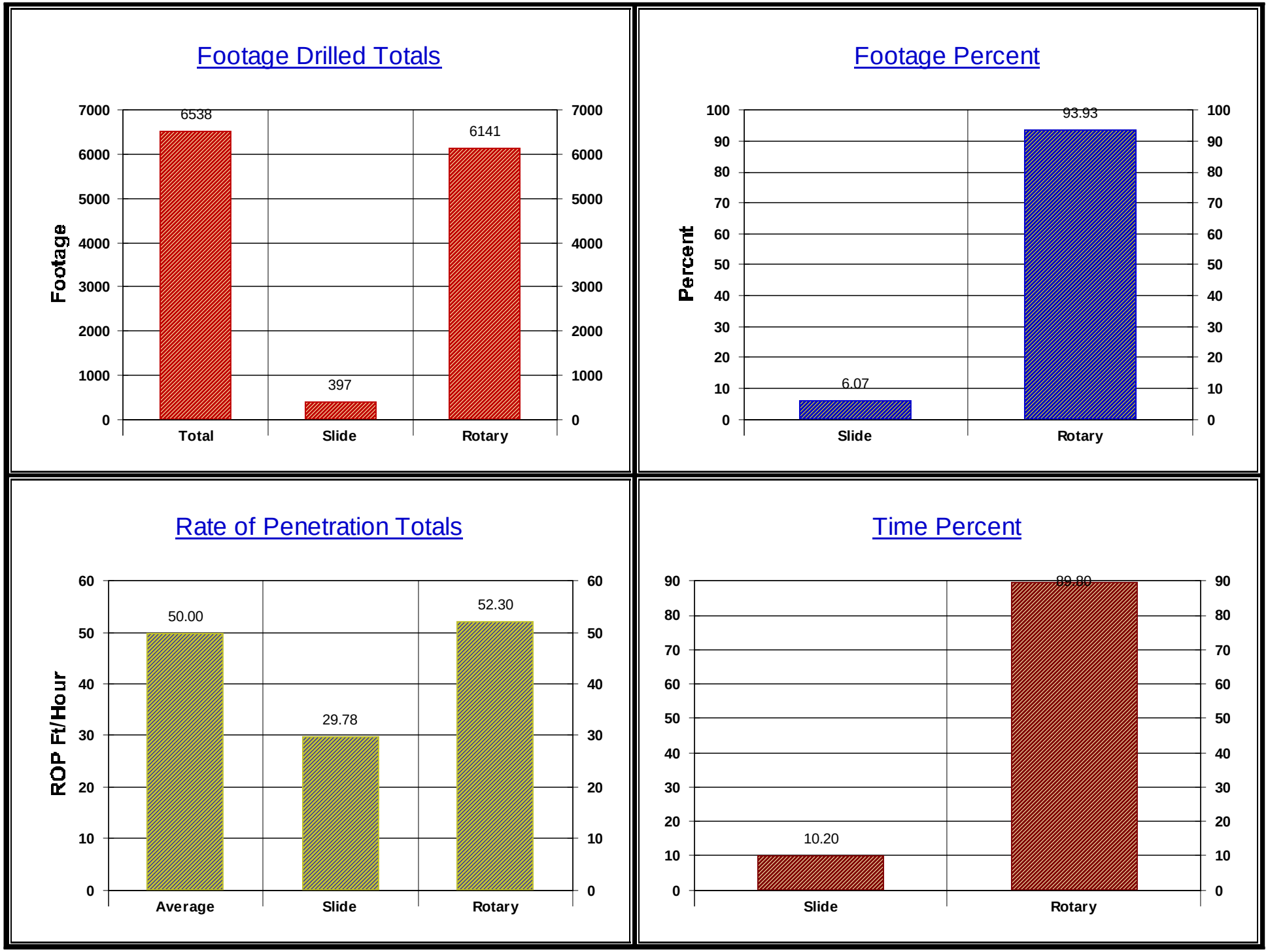

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