API Well Number: 43013513720000

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
JW Moon 3-20-3-3WH

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
NEWFIELD PRODUCTION COMPANY

7. OPERATOR PHONE
435 646-4825

8. ADDRESS OF OPERATOR
Rt 3 Box 3630 , Myton, UT, 84052

9. OPERATOR E-MAIL
mcrozier@newfield.com

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
Patented

11. MINERAL OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ○ FEE ●

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

13. NAME OF SURFACE OWNER (if box 12 = 'fee')
Henry Lamar Jones and Jo Viviane Jones

14. SURFACE OWNER PHONE (if box 12 = 'fee')
406-750-3082

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')
21 Grandview Court, Great Falls, MT 59404

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	170 FNL 1981 FWL	NENW	20	3.0 S	3.0 W	U
Top of Uppermost Producing Zone	660 FNL 1980 FWL	NENW	20	3.0 S	3.0 W	U
At Total Depth	660 FSL 1980 FWL	SESW	20	3.0 S	3.0 W	U

21. COUNTY
DUCHESNE

22. DISTANCE TO NEAREST LEASE LINE (Feet)
170

23. NUMBER OF ACRES IN DRILLING UNIT
40

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
2250

26. PROPOSED DEPTH
MD: 13030 TVD: 8598

27. ELEVATION - GROUND LEVEL
5356

28. BOND NUMBER
B001834

29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE
437478

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	17.5	14	0 - 60	37.0	H-40 ST&C	0.0	Class G	35	1.17	15.8
SURF	12.25	9.625	0 - 2500	36.0	J-55 ST&C	8.3	Premium Lite High Strength	204	3.53	11.0
							Class G	154	1.17	15.8
I1	8.75	7	0 - 9105	26.0	P-110 Other	11.5	Premium Lite High Strength	264	3.53	11.0
							50/50 Poz	379	1.24	14.3
L1	6.125	4.5	8212 - 13030	13.5	P-110 Other	11.5	No Used	0	0.0	0.0

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 **PHONE** 435 719-2018

SIGNATURE **DATE** 04/16/2012 **EMAIL** starpoint@etv.net

API NUMBER ASSIGNED
43013513720000

APPROVAL
Permit Manager

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RECEIVED: August 02, 2012

Newfield Production Company
JW Moon 3-20-3-3WH
Surface Hole Location: 170' FNL, 1981' FWL, Section 20, T3S, R3W
Bottom Hole Location: 660' FSL,1980' FWL, Section 20, T3S, R3W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface
Green River	3,470'
Garden Gulch member	6,387'
Wasatch	8,883'
Pilot Hole TD	8,883'
Lateral TD	8,598' TVD / 13,030' MD

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

Base of moderately saline	664'	(water)
Green River	6,387' - 8,598'	(oil)

Note: The pilot hole will be drilled into the Wasatch formation for evaluation and targeting purposes only. The lateral will be drilled in the Green River formation.

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

4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor	0'	60'	37	H-40	Weld	--	--	--	--	--	--
14									--	--	--
Surface	0'	2,500'	36	J-55	STC	8.33	8.33	14	3,520	2,020	394,000
9 5/8									2.12	2.54	4.38
Intermediate	0'	8,783'	26	P-110	BTC	11	11.5	15	9,960	6,210	853,000
7		9,105'							2.40	1.42	3.60
Production	8,212'	8,598'	13.5	P-110	BTC	11	11.5	--	12,410	10,670	422,000
4 1/2		13,030'							3.06	2.49	6.49

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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	41 / 35	15%	15.8	1.17
Surface Lead	12 1/4	2,000'	Premium Lite II w/ 3% KCl + 10% bentonite	720 / 204	15%	11.0	3.53
Surface Tail	12 1/4	500'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	180 / 154	15%	15.8	1.17
Pilot Hole Plug Back	8 3/4	621'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	298 / 241	15%	14.3	1.24
Intermediate Lead	8 3/4	5,387'	Premium Lite II w/ 3% KCl + 10% bentonite	931 / 264	15%	11.0	3.53
Intermediate Tail	8 3/4	2,718'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	470 / 379	15%	14.3	1.24
Production	6 1/8	--	Liner will not be cemented. It will be isolated with a liner top packer.	-- / --	--	--	--

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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 pilot hole plug back and the intermediate casing string will be calculated from an open hole caliper log, plus 15% excess.

The production liner will be left uncemented. Individual frac stages will be isolated with open hole packers. A liner top hanger and packer will be installed 50' above KOP.

6. Type and Characteristics of Proposed Circulating Medium

Interval **Description**

Surface - 2,500'

An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.

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2,500' - TD A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

Anticipated maximum mud weight is 11.5 ppg.

7. Logging, Coring, and Testing

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

Cores: As deemed necessary.

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

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.57 psi/ft gradient.

8,598' x 0.57 psi/ft = 4918 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

An 8-3/4" pilot hole will be drilled in order to determine the depth to the lateral target zone.
The pilot hole will be logged, and then plugged back in prepartion for horizontal operations.
Directional tools will then be used to build to 92.70 degrees inclination.
The 7" intermediate casing string will be set once the well is landed horizontally in the target zone.

The lateral will be drilled to the bottomhole location shown on the plat.
A liner with a system of open hole packers will be used to provide multi-stage frac isolation in the lateral. The top of the liner will be place 50' above KOP and will be isolated with a liner top packer.

Newfield requests the following variances from Onshore Order #2:

- Variance from Onshoer Order #2, III.E.1
  Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

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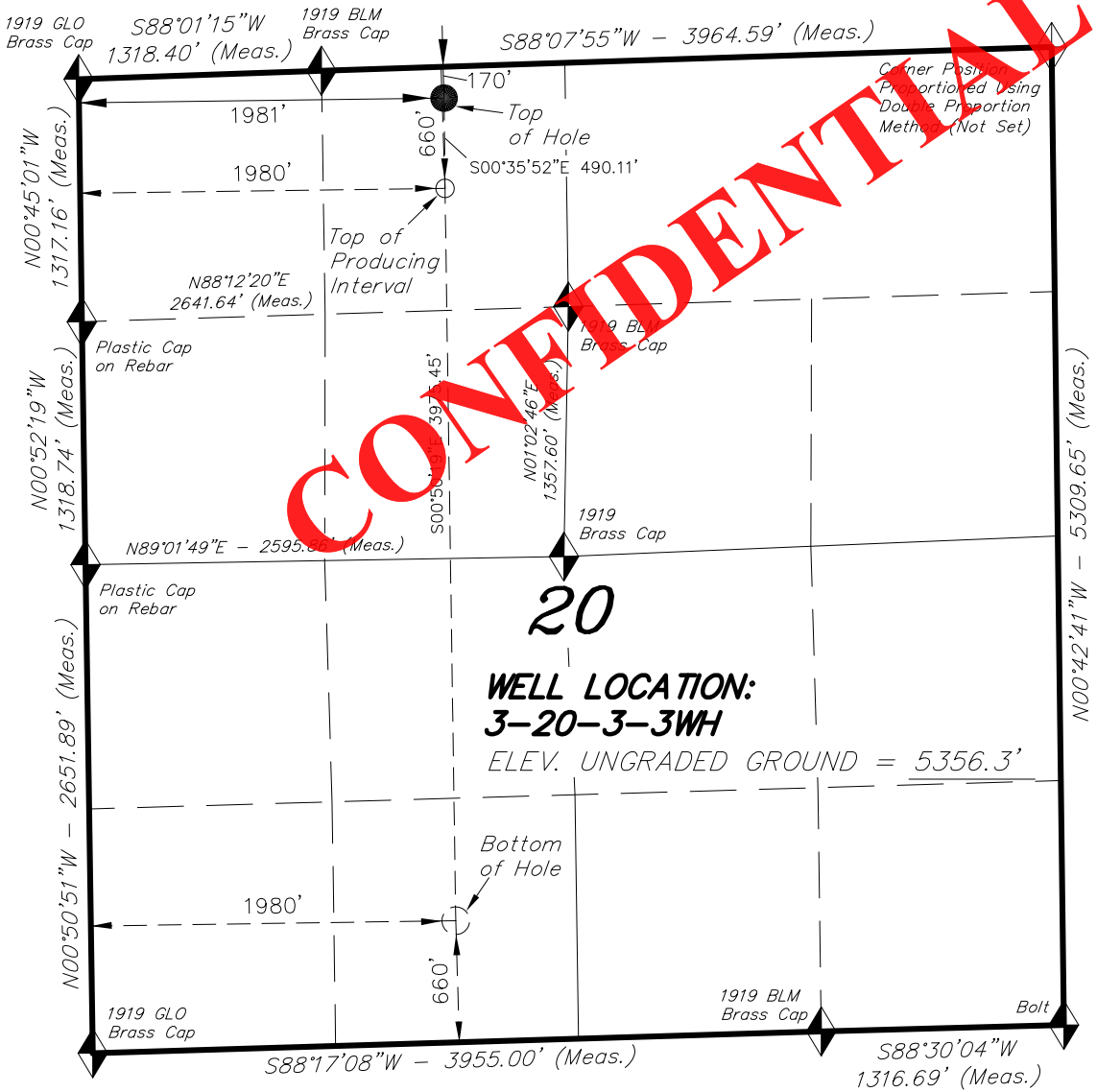
T3S, R3W, U.S.B.&M.



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NEWFIELD EXPLORATION COMPANY

WELL LOCATION, 3-20-3-3WH, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 20, T3S, R3W, U.S.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, 3-20-3-3WH, LOCATED AS SHOWN IN THE SE 1/4 SW 1/4 OF SECTION 20, T3S, R3W, U.S.B.&M. DUCHESNE 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.
3. The Bottom of Hole bears S00°48'44"E 4465.55' from the Top of Hole.

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 04-04-12 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

◆ = SECTION CORNERS LOCATED

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

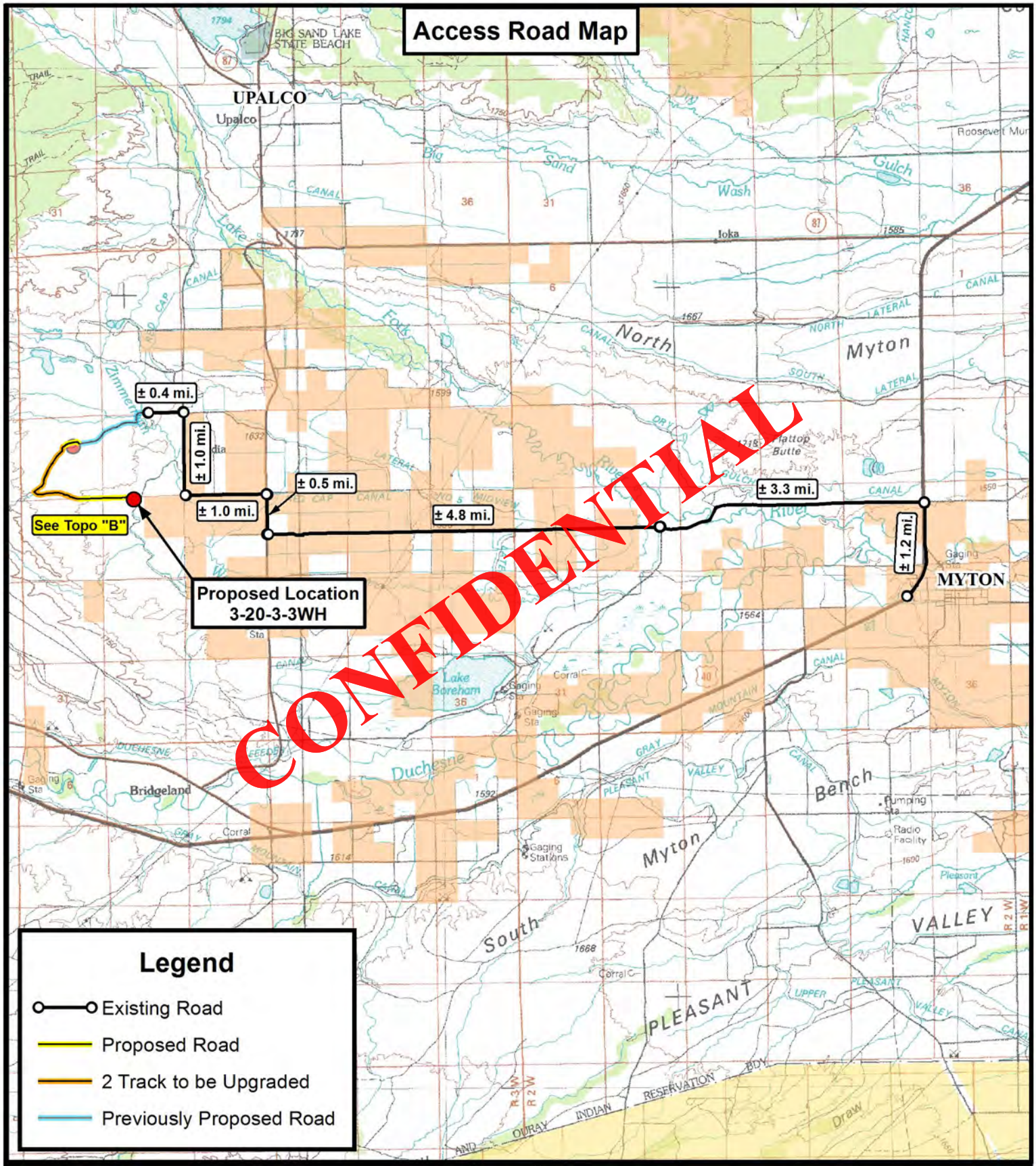
3-20-3-3WH (Surface Location) NAD 83
LATITUDE = 40° 12' 50.18"
LONGITUDE = 110° 14' 56.60"

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

DATE SURVEYED: 12-28-12	SURVEYED BY: D.P.	VERSION:
DATE DRAWN: 03-27-12	DRAWN BY: R.B.T.	V2
REVISED: 04-04-12 R.B.T.	SCALE: 1" = 1000'	

RECEIVED: April 16, 2012

API Well Number: 43013513720000



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

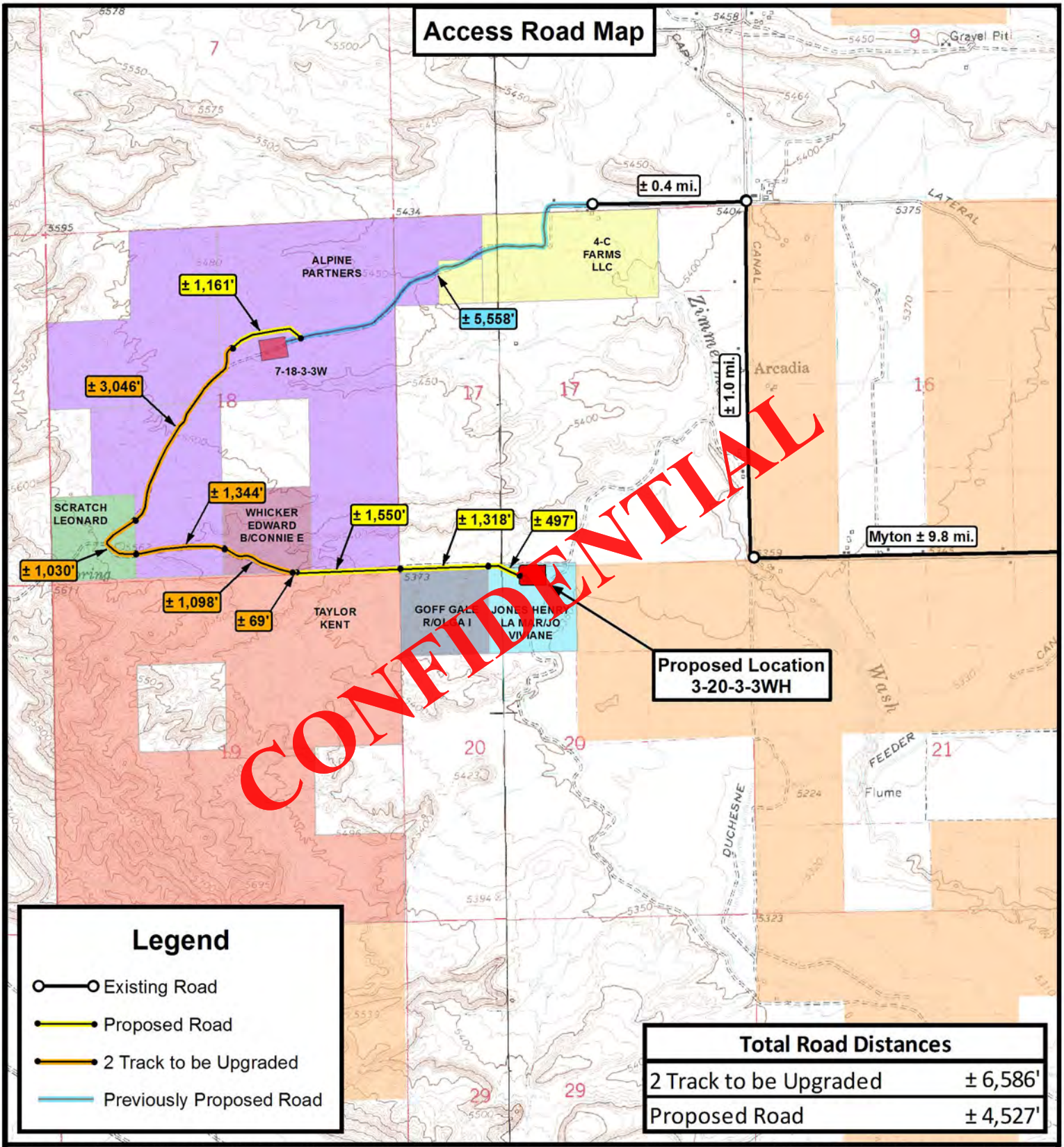
N

NEWFIELD EXPLORATION COMPANY

3-20-3-3WH
SEC. 20, T3S, R3W, U.S.B.&M.
Duchesne County, UT.

DRAWN BY: D.C.R.	REVISED: 04-04-12 A.P.C.	VERSION:	TOPOGRAPHIC MAP
DATE: 03-28-2012		V2	SHEET A
SCALE: 1:100,000			

API Well Number: 43013513720000



Total Road Distances	
2 Track to be Upgraded	± 6,586'
Proposed Road	± 4,527'

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

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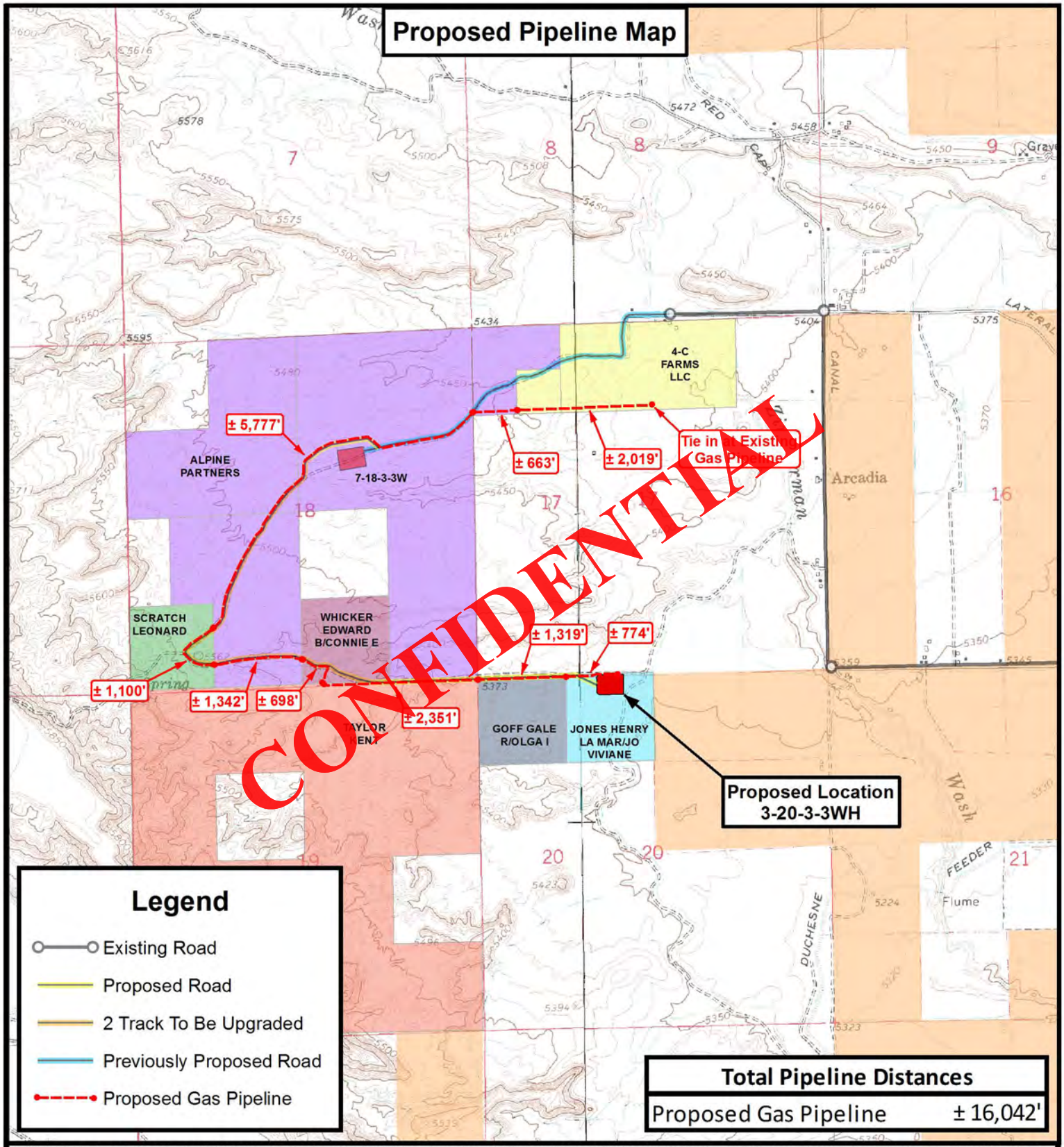
N

NEWFIELD EXPLORATION COMPANY

3-20-3-3WH
SEC. 20, T3S, R3W, U.S.B.&M.
Duchesne County, UT.

DRAWN BY: D.C.R.	REVISED: 04-04-12 A.P.C.	VERSION:	TOPOGRAPHIC MAP
DATE: 03-28-2012		V2	SHEET B
SCALE: 1 " = 2,000 '			

API Well Number: 43013513720000



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

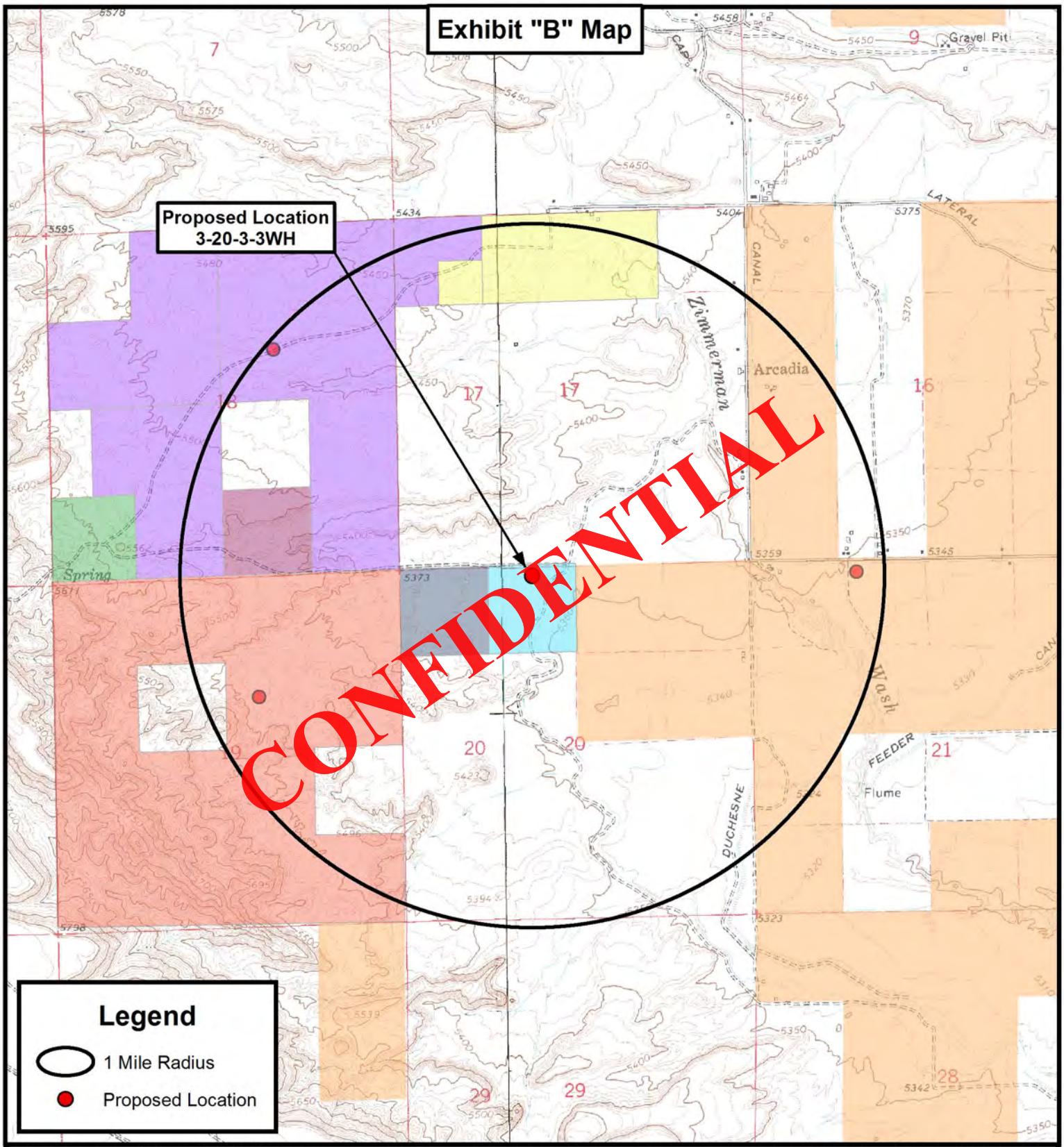
N

NEWFIELD EXPLORATION COMPANY

3-20-3-3WH
SEC. 20, T3S, R3W, U.S.B.&M.
Duchesne County, UT.

DRAWN BY: D.C.R.	REVISED: 04-04-12 A.P.C.	VERSION:	TOPOGRAPHIC MAP
DATE: 03-28-2012		V2	SHEET C
SCALE: 1 " = 2,000 '			

API Well Number: 43013513720000



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N

NEWFIELD EXPLORATION COMPANY

3-20-3-3WH
SEC. 20, T3S, R3W, U.S.B.&M.
Duchesne County, UT.

DRAWN BY: D.C.R.	REVISED: 04-04-12 A.P.C.	VERSION:	TOPOGRAPHIC MAP
DATE: 03-28-2012		V2	SHEET D
SCALE: 1 " = 2,000 '			

API Well Number: 43013513720000

NEWFIELD EXPLORATION CO.

DUCHESNE COUNTY, UT

MOON 3-20-3-3WH

CONFIDENTIAL

Plan: Design #1

Standard Survey Report

9 APRIL, 2012

RECEIVED: April 16, 2012

API Well Number: 43013513720000

NEWFIELD

Weatherford®

Project:	DUCHESNE COUNTY, UT
Site:	MOON 3-20-3-3WH
Well:	MOON 3-20-3-3WH
Wellbore:	MOON 3-20-3-3WH
Design:	Design #1
Latitude:	40° 12' 50.180 N
Longitude:	110° 14' 56.600 W
GL:	5356.00
KB:	WELL @ 5374.00ft (PIONEER 62)

CONFIDENTIAL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL MOON 3-20-3-3WH	8598.00	-4465.12	63.60	40° 12' 6.052 N	110° 14' 55.730 W	Point

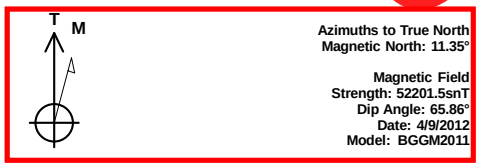
WELL DETAILS: MOON 3-20-3-3WH

Ground Level: 5356.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	7249096.00	1989749.72	40° 12' 50.180 N	110° 14' 56.600 W	

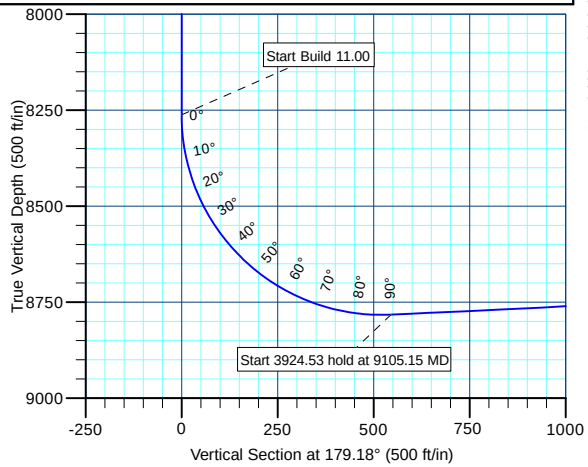
SECTION DETAILS

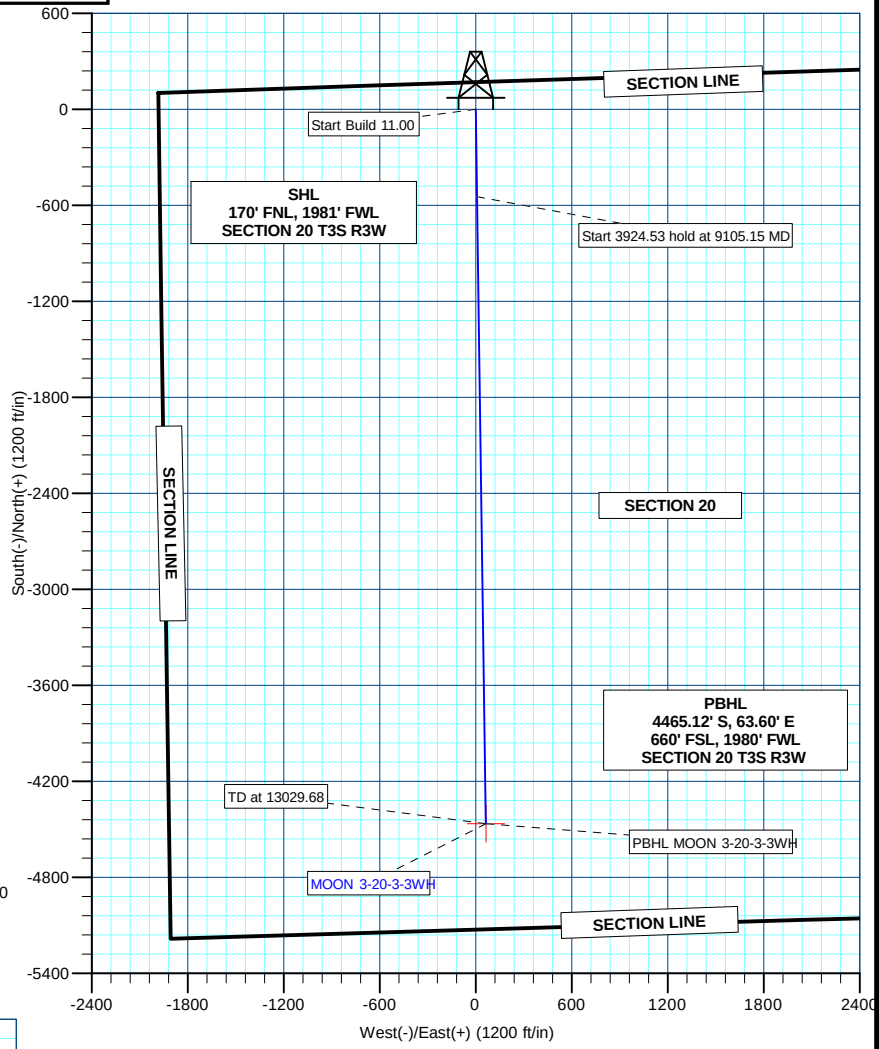
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8262.44	0.00	0.00	8262.44	0.00	0.00	0.00	0.00	0.00	Start Build 11.00
9105.15	92.70	179.18	8782.73	-545.33	7.77	11.00	179.18	545.39	Start 3924.53 hold at 9105.15 MD
13029.68	92.70	179.18	8598.00	-4465.12	63.60	0.00	0.00	4465.57	TD at 13029.68

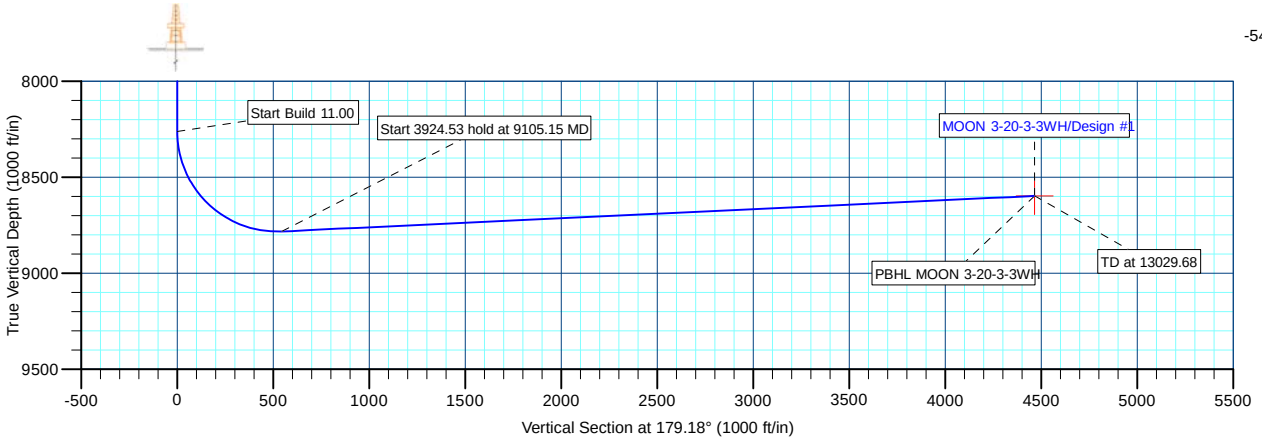


Azimuths to True North
Magnetic North: 11.35°

Magnetic Field
Strength: 52201.5snT
Dip Angle: 65.86°
Date: 4/9/2012
Model: BGGM2011







Plan: Design #1 (MOON 3-20-3-3WH/MOON 3-20-3-3WH)

Created By: TRACY WILLIAMS Date: 10:53, April 09 2012

API Well Number: 43013513720000

NEWFIELD

NEWFIELD EXPLORATION CO.

DUCHESNE COUNTY, UT
MOON 3-20-3-3WH
MOON 3-20-3-3WH

MOON 3-20-3-3WH

Plan: Design #1

CONFIDENTIAL

Standard Planning Report

09 April, 2012

Weatherford®

RECEIVED: April 16, 2012

NEWFIELD

Weatherford International Ltd.

Planning Report

Weatherford

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well MOON 3-20-3-3WH
Company:	NEWFIELD EXPLORATION CO.	**TVD Reference:**	WELL @ 5374.00ft (PIONEER 62)
Project:	DUCHESNE COUNTY, UT	**MD Reference:**	WELL @ 5374.00ft (PIONEER 62)
Site:	MOON 3-20-3-3WH	**North Reference:**	True
Well:	MOON 3-20-3-3WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	MOON 3-20-3-3WH		
Design:	Design #1		

Project DUCHESNE 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 MOON 3-20-3-3WH

Site Position:		**Northing:**	7,249,096.00 ft	**Latitude:**	40° 12' 50.180 N
From:	Lat/Long	**Easting:**	1,989,749.72 ft	**Longitude:**	110° 14' 56.600 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	"	**Grid Convergence:**	0.80 °

Well MOON 3-20-3-3WH

Well Position	**+N/-S**	0.00 ft	**Northing:**	7,249,096.00 ft	**Latitude:**	40° 12' 50.180 N
	+E/-W	0.00 ft	**Easting:**	1,989,749.72 ft	**Longitude:**	110° 14' 56.600 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,356.00 ft

Wellbore MOON 3-20-3-3WH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	4/9/2012	11.35	65.86	52,202

Design Design #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	179.18

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,262.44	0.00	0.00	8,262.44	0.00	0.00	0.00	0.00	0.00	0.00	
9,105.15	92.70	179.18	8,782.73	-545.33	7.77	11.00	11.00	0.00	179.18	
13,029.68	92.70	179.18	8,598.00	-4,465.12	63.60	0.00	0.00	0.00	0.00	PBHL MOON 3-20-

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RECEIVED: April 16, 2012

NEWFIELD

Weatherford International Ltd.

Planning Report

Weatherford

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well MOON 3-20-3-3WH
Company:	NEWFIELD EXPLORATION CO.	**TVD Reference:**	WELL @ 5374.00ft (PIONEER 62)
Project:	DUCHESNE COUNTY, UT	**MD Reference:**	WELL @ 5374.00ft (PIONEER 62)
Site:	MOON 3-20-3-3WH	**North Reference:**	True
Well:	MOON 3-20-3-3WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	MOON 3-20-3-3WH		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

CONFIDENTIAL

RECEIVED: April 16, 2012

NEWFIELD

Weatherford International Ltd.

Planning Report

Weatherford

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well MOON 3-20-3-3WH
Company:	NEWFIELD EXPLORATION CO.	**TVD Reference:**	WELL @ 5374.00ft (PIONEER 62)
Project:	DUCHESNE COUNTY, UT	**MD Reference:**	WELL @ 5374.00ft (PIONEER 62)
Site:	MOON 3-20-3-3WH	**North Reference:**	True
Well:	MOON 3-20-3-3WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	MOON 3-20-3-3WH		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 11.00									
8,262.44	0.00	0.00	8,262.44	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	4.13	179.18	8,299.97	-1.35	0.02	1.35	11.00	11.00	0.00
8,350.00	9.63	179.18	8,349.59	-7.34	0.10	7.34	11.00	11.00	0.00
8,400.00	15.13	179.18	8,398.41	-18.06	0.26	18.06	11.00	11.00	0.00
8,450.00	20.63	179.18	8,445.97	-33.40	0.48	33.41	11.00	11.00	0.00
8,500.00	26.13	179.18	8,491.85	-53.24	0.76	53.24	11.00	11.00	0.00
8,550.00	31.63	179.18	8,535.61	-77.37	1.10	77.38	11.00	11.00	0.00
8,600.00	37.13	179.18	8,576.86	-105.60	1.50	105.61	11.00	11.00	0.00
8,650.00	42.63	179.18	8,615.22	-137.64	1.96	137.65	11.00	11.00	0.00
8,700.00	48.13	179.18	8,650.32	-173.21	2.47	173.23	11.00	11.00	0.00
8,750.00	53.63	179.18	8,681.86	-211.99	3.02	212.01	11.00	11.00	0.00
8,800.00	59.13	179.18	8,709.53	-253.60	3.61	253.63	11.00	11.00	0.00
8,850.00	64.63	179.18	8,733.08	-297.68	4.24	297.71	11.00	11.00	0.00
8,900.00	70.13	179.18	8,752.31	-343.81	4.90	343.85	11.00	11.00	0.00
8,950.00	75.63	179.18	8,767.02	-391.57	5.58	391.61	11.00	11.00	0.00
9,000.00	81.13	179.18	8,777.08	-440.53	6.27	440.57	11.00	11.00	0.00
9,050.00	86.63	179.18	8,782.41	-490.22	6.98	490.27	11.00	11.00	0.00
9,100.00	92.13	179.18	8,782.95	-540.19	7.69	540.24	11.00	11.00	0.00
Start 3924.53 hold at 9105.15 MD									
9,105.15	92.70	179.18	8,782.73	-545.33	7.77	545.39	11.00	11.00	0.00
9,200.00	92.70	179.18	8,778.27	-640.07	9.12	640.13	0.00	0.00	0.00
9,300.00	92.70	179.18	8,773.56	-739.95	10.54	740.02	0.00	0.00	0.00
9,400.00	92.70	179.18	8,768.85	-839.83	11.96	839.91	0.00	0.00	0.00

CONFIDENTIAL

RECEIVED: April 16, 2012

NEWFIELD

Weatherford International Ltd.

Planning Report

Weatherford

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well MOON 3-20-3-3WH
Company:	NEWFIELD EXPLORATION CO.	**TVD Reference:**	WELL @ 5374.00ft (PIONEER 62)
Project:	DUCHESNE COUNTY, UT	**MD Reference:**	WELL @ 5374.00ft (PIONEER 62)
Site:	MOON 3-20-3-3WH	**North Reference:**	True
Well:	MOON 3-20-3-3WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	MOON 3-20-3-3WH		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,500.00	92.70	179.18	8,764.15	-939.71	13.38	939.80	0.00	0.00	0.00
9,600.00	92.70	179.18	8,759.44	-1,039.59	14.81	1,039.69	0.00	0.00	0.00
9,700.00	92.70	179.18	8,754.73	-1,139.46	16.23	1,139.58	0.00	0.00	0.00
9,800.00	92.70	179.18	8,750.03	-1,239.34	17.65	1,239.47	0.00	0.00	0.00
9,900.00	92.70	179.18	8,745.32	-1,339.22	19.08	1,339.36	0.00	0.00	0.00
10,000.00	92.70	179.18	8,740.61	-1,439.10	20.50	1,439.25	0.00	0.00	0.00
10,100.00	92.70	179.18	8,735.90	-1,538.98	21.92	1,539.14	0.00	0.00	0.00
10,200.00	92.70	179.18	8,731.20	-1,638.86	23.34	1,639.03	0.00	0.00	0.00
10,300.00	92.70	179.18	8,726.49	-1,738.74	24.77	1,738.92	0.00	0.00	0.00
10,400.00	92.70	179.18	8,721.78	-1,838.62	26.19	1,838.80	0.00	0.00	0.00
10,500.00	92.70	179.18	8,717.08	-1,938.50	27.61	1,938.69	0.00	0.00	0.00
10,600.00	92.70	179.18	8,712.37	-2,038.38	29.03	2,038.58	0.00	0.00	0.00
10,700.00	92.70	179.18	8,707.66	-2,138.25	30.46	2,138.47	0.00	0.00	0.00
10,800.00	92.70	179.18	8,702.95	-2,238.13	31.88	2,238.36	0.00	0.00	0.00
10,900.00	92.70	179.18	8,698.25	-2,338.01	33.30	2,338.25	0.00	0.00	0.00
11,000.00	92.70	179.18	8,693.54	-2,437.89	34.72	2,438.14	0.00	0.00	0.00
11,100.00	92.70	179.18	8,688.83	-2,537.77	36.15	2,538.03	0.00	0.00	0.00
11,200.00	92.70	179.18	8,684.13	-2,637.65	37.57	2,637.92	0.00	0.00	0.00
11,300.00	92.70	179.18	8,679.42	-2,737.53	38.99	2,737.81	0.00	0.00	0.00
11,400.00	92.70	179.18	8,674.71	-2,837.41	40.42	2,837.70	0.00	0.00	0.00
11,500.00	92.70	179.18	8,670.00	-2,937.29	41.84	2,937.59	0.00	0.00	0.00
11,600.00	92.70	179.18	8,665.30	-3,037.17	43.26	3,037.47	0.00	0.00	0.00
11,700.00	92.70	179.18	8,660.59	-3,137.05	44.68	3,137.36	0.00	0.00	0.00
11,800.00	92.70	179.18	8,655.88	-3,236.92	46.11	3,237.25	0.00	0.00	0.00
11,900.00	92.70	179.18	8,651.18	-3,336.80	47.53	3,337.14	0.00	0.00	0.00
12,000.00	92.70	179.18	8,646.47	-3,436.68	48.95	3,437.03	0.00	0.00	0.00
12,100.00	92.70	179.18	8,641.76	-3,536.56	50.37	3,536.92	0.00	0.00	0.00
12,200.00	92.70	179.18	8,637.05	-3,636.44	51.80	3,636.81	0.00	0.00	0.00
12,300.00	92.70	179.18	8,632.35	-3,736.32	53.22	3,736.70	0.00	0.00	0.00
12,400.00	92.70	179.18	8,627.64	-3,836.20	54.64	3,836.59	0.00	0.00	0.00
12,500.00	92.70	179.18	8,622.93	-3,936.08	56.06	3,936.48	0.00	0.00	0.00
12,600.00	92.70	179.18	8,618.23	-4,035.96	57.49	4,036.37	0.00	0.00	0.00
12,700.00	92.70	179.18	8,613.52	-4,135.84	58.91	4,136.25	0.00	0.00	0.00
12,800.00	92.70	179.18	8,608.81	-4,235.71	60.33	4,236.14	0.00	0.00	0.00
12,900.00	92.70	179.18	8,604.10	-4,335.59	61.76	4,336.03	0.00	0.00	0.00
13,000.00	92.70	179.18	8,599.40	-4,435.47	63.18	4,435.92	0.00	0.00	0.00
TD at 13029.68 - PBHL MOON 3-20-3-3WH									
13,029.68	92.70	179.18	8,598.00	-4,465.12	63.60	4,465.57	0.00	0.00	0.00

CONFIDENTIAL

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL MOON 3-20-3-: - plan hits target center - Point	0.00	0.00	8,598.00	-4,465.12	63.60	7,244,632.22	1,989,875.76	40° 12' 6.052 N	110° 14' 55.780 W

RECEIVED: April 16, 2012

NEWFIELD

Weatherford International Ltd.

Planning Report

Weatherford

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well MOON 3-20-3-3WH
Company:	NEWFIELD EXPLORATION CO.	**TVD Reference:**	WELL @ 5374.00ft (PIONEER 62)
Project:	DUCHESNE COUNTY, UT	**MD Reference:**	WELL @ 5374.00ft (PIONEER 62)
Site:	MOON 3-20-3-3WH	**North Reference:**	True
Well:	MOON 3-20-3-3WH	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	MOON 3-20-3-3WH		
Design:	Design #1		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
8,262.44	8,262.44	0.00	0.00	Start Build 11.00
9,105.15	8,782.73	-545.33	7.77	Start 3924.53 hold at 9105.15 MD
13,029.68	8,598.00	-4,465.12	63.60	TD at 13029.68

CONFIDENTIAL

RECEIVED: April 16, 2012

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

Laura Smith personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Laura Smith. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").

2. Newfield is the Operator of the proposed JW Moon 3-20-3-3WH well to be located in the NENW of Section 20, Township 3 South, Range 3 West, Duchesne, County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Henry Lamar Jones and Jo Viviane Jones, whose address is 21 Grandview Court, Great Falls, Montana 59404 ("Surface Owner").

3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated December 15, 2011 covering the Drillsite Location and access to the Drillsite Location.

FURTHER AFFIANT SAYETH NOT.

CONFIDENTIAL

Laura Smith, Landman

ACKNOWLEDGEMENT

STATE OF COLORADO §
CITY AND §
COUNTY OF DENVER §

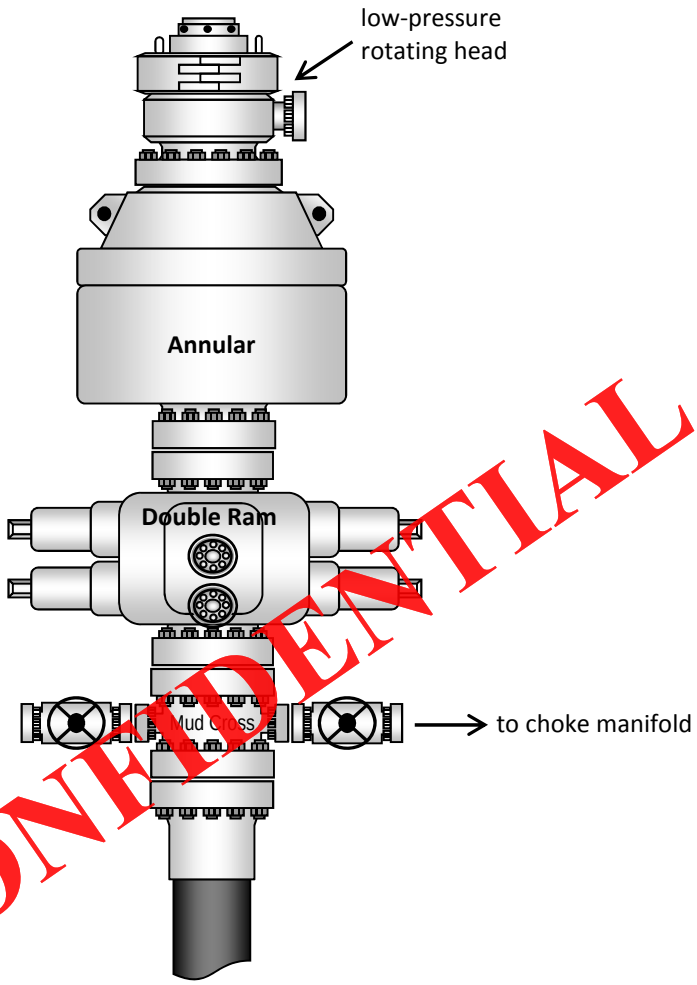
Before me, a Notary Public, in and for the State, on this 21st day of December, 2011, personally appeared Laura Smith, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that she executed the same as her own free and voluntary act and deed for the uses and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires:

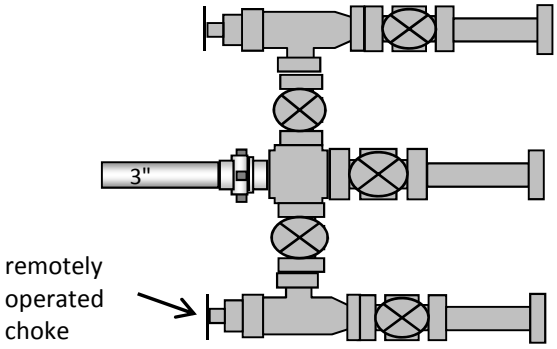
ALAN D. WILD NOTARY PUBLIC STATE OF COLORADO MY COMMISSION EXPIRES 2/17/2015

Typical 5M BOP stack configuration



CONFIDENTIAL

Typical 5M choke manifold configuration



RECEIVED: April 16, 2012

API Well Number: 43013513720000

NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT

3-20-3-3WH (Proposed Well)

Pad Location: NENW Section 20, T3S, R3W, U.S.B.&M.

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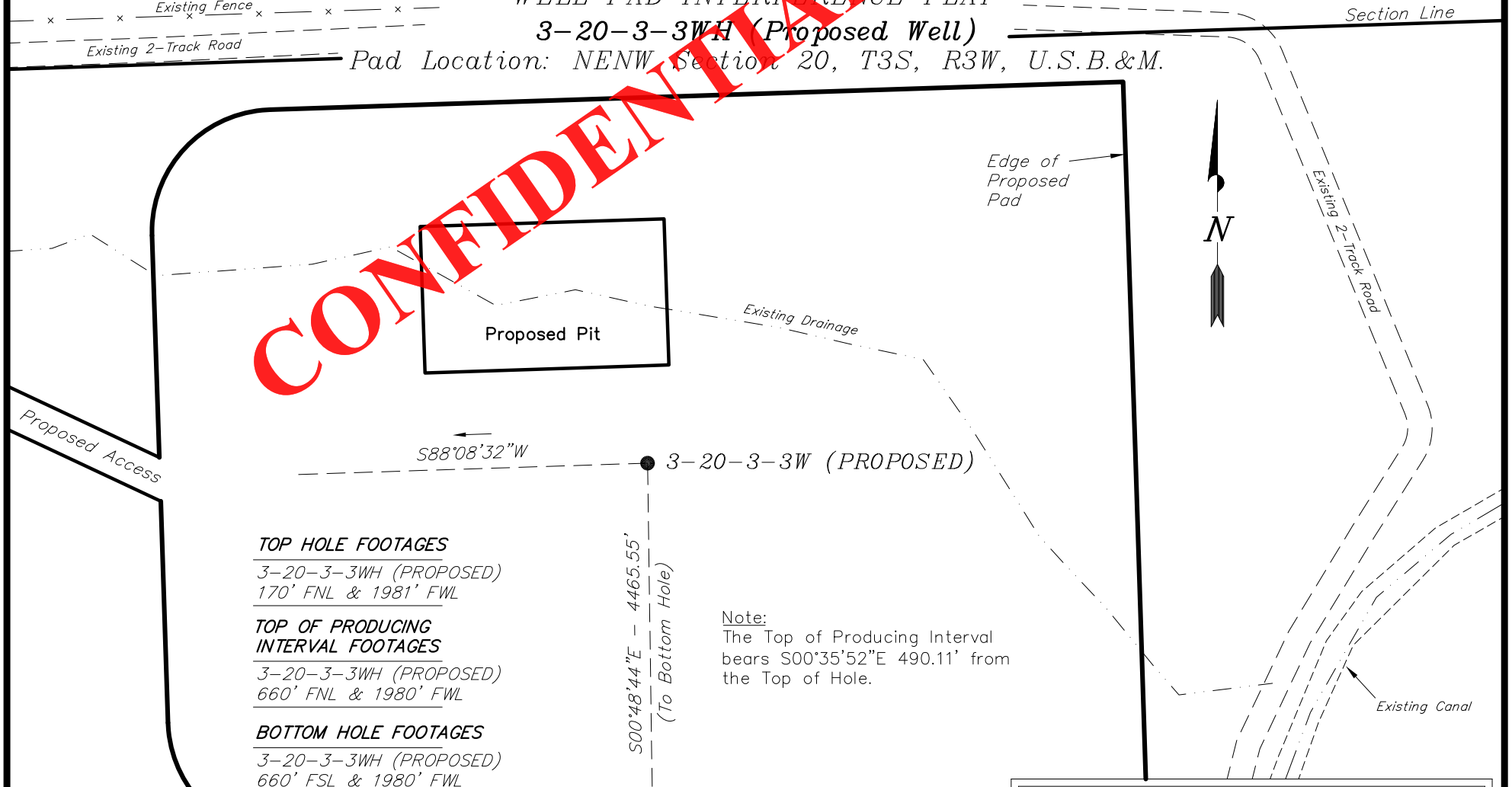


TOP HOLE FOOTAGES

3-20-3-3WH (PROPOSED)
170' FNL & 1981' FWL

TOP OF PRODUCING INTERVAL FOOTAGES

3-20-3-3WH (PROPOSED)
660' FNL & 1980' FWL

BOTTOM HOLE FOOTAGES

3-20-3-3WH (PROPOSED)
660' FSL & 1980' FWL

Note:
The Top of Producing Interval bears S00°35'52"E 490.11' from the Top of Hole.

Note:
Bearings are based on GPS Observations.

RELATIVE COORDINATES
From Top Hole to Bottom Hole

WELL	NORTH	EAST
3-20-3-3WH	-4,465'	63'

LATITUDE & LONGITUDE
Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
3-20-3-3WH	40° 12' 50.18"	110° 14' 56.60"

SURVEYED BY:	D.P.	DATE SURVEYED:	12-28-11	VERSION:	V2
DRAWN BY:	R.B.T.	DATE DRAWN:	03-27-12		
SCALE:	1" = 60'	REVISED:	R.B.T. 04-04-12		

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

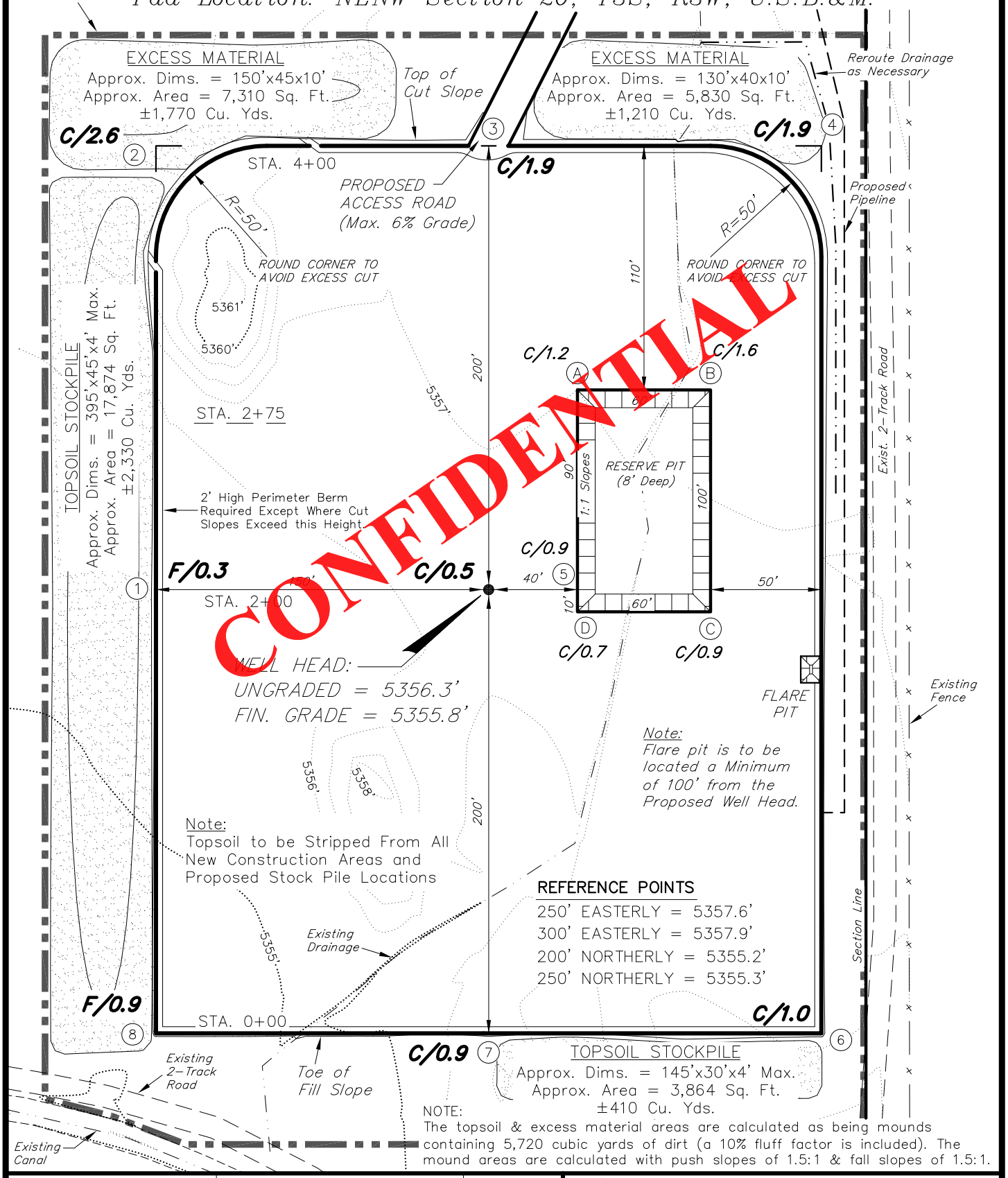
RECEIVED: April 16, 2012

NEWFIELD EXPLORATION COMPANY

PROPOSED LOCATION LAYOUT

3-20-3-3WH

Pad Location: NENW Section 20, T3S, R3W, U.S.B.&M.



NOTE:
The topsoil & excess material areas are calculated as being mounds containing 5,720 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

SURVEYED BY: D.P.	DATE SURVEYED: 12-28-11	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: R.B.T.	DATE DRAWN: 03-27-12	V2	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED: R.B.T. 04-04-12		

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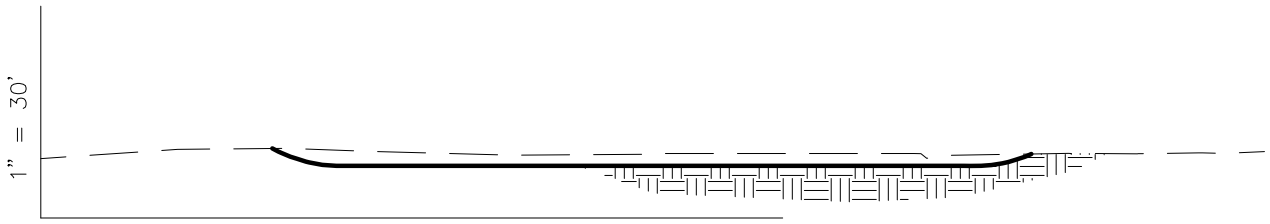
RECEIVED: April 16, 2012

NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS

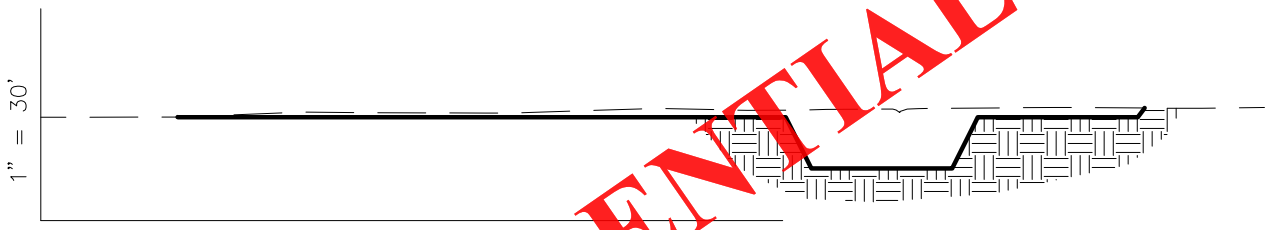
3-20-3-3WH

Pad Location: NENW Section 20, T3S, R3W, U.S.B.&M.



1" = 60'

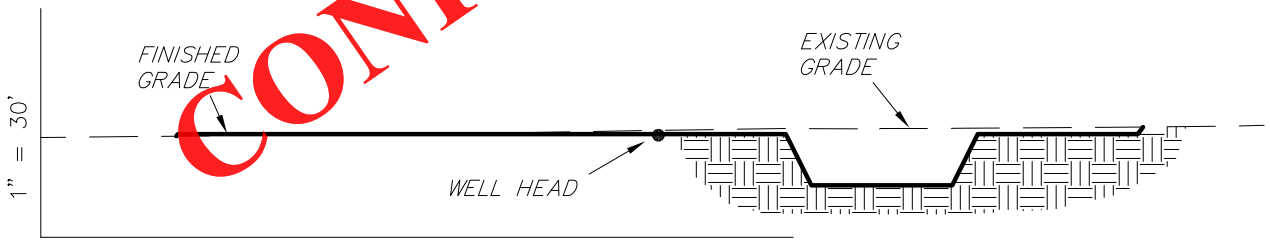
STA. 4+00



1" = 60'

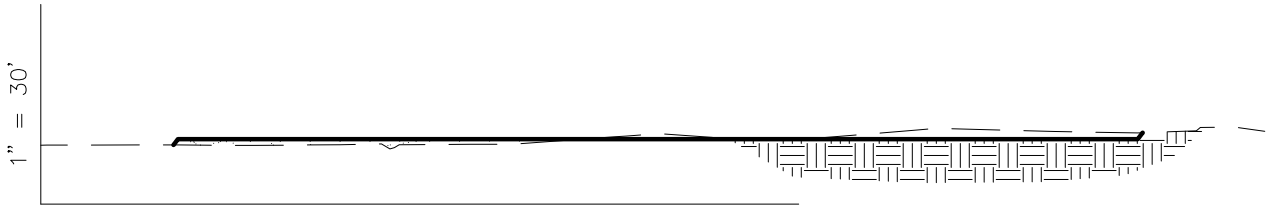
STA. 2+75

CONFIDENTIAL



1" = 60'

STA. 2+00



1" = 60'

STA. 0+00

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	2,320	1,030	Topsoil is not included in Pad Cut Volume	1,290
PIT	1,420	0		1,420
TOTALS	3,740	1,030	2,490	2,710

SURVEYED BY: D.P.	DATE SURVEYED: 12-28-11	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: R.B.T.	DATE DRAWN: 03-27-12	V2	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED: R.B.T. 04-04-12		

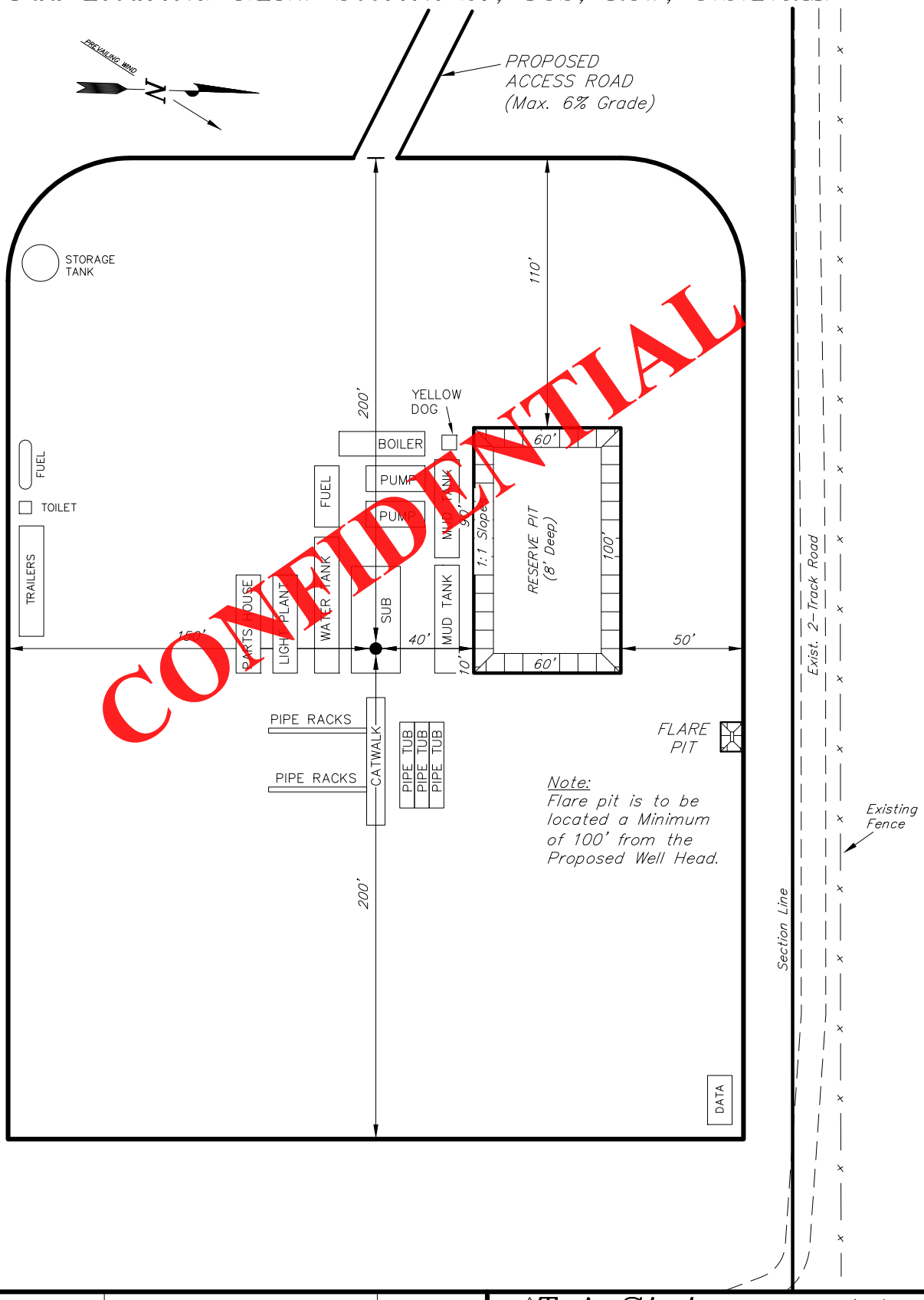
RECEIVED: April 16, 2012

NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT

3-20-3-3WH

Pad Location: NENW Section 20, T3S, R3W, U.S.B.&M.



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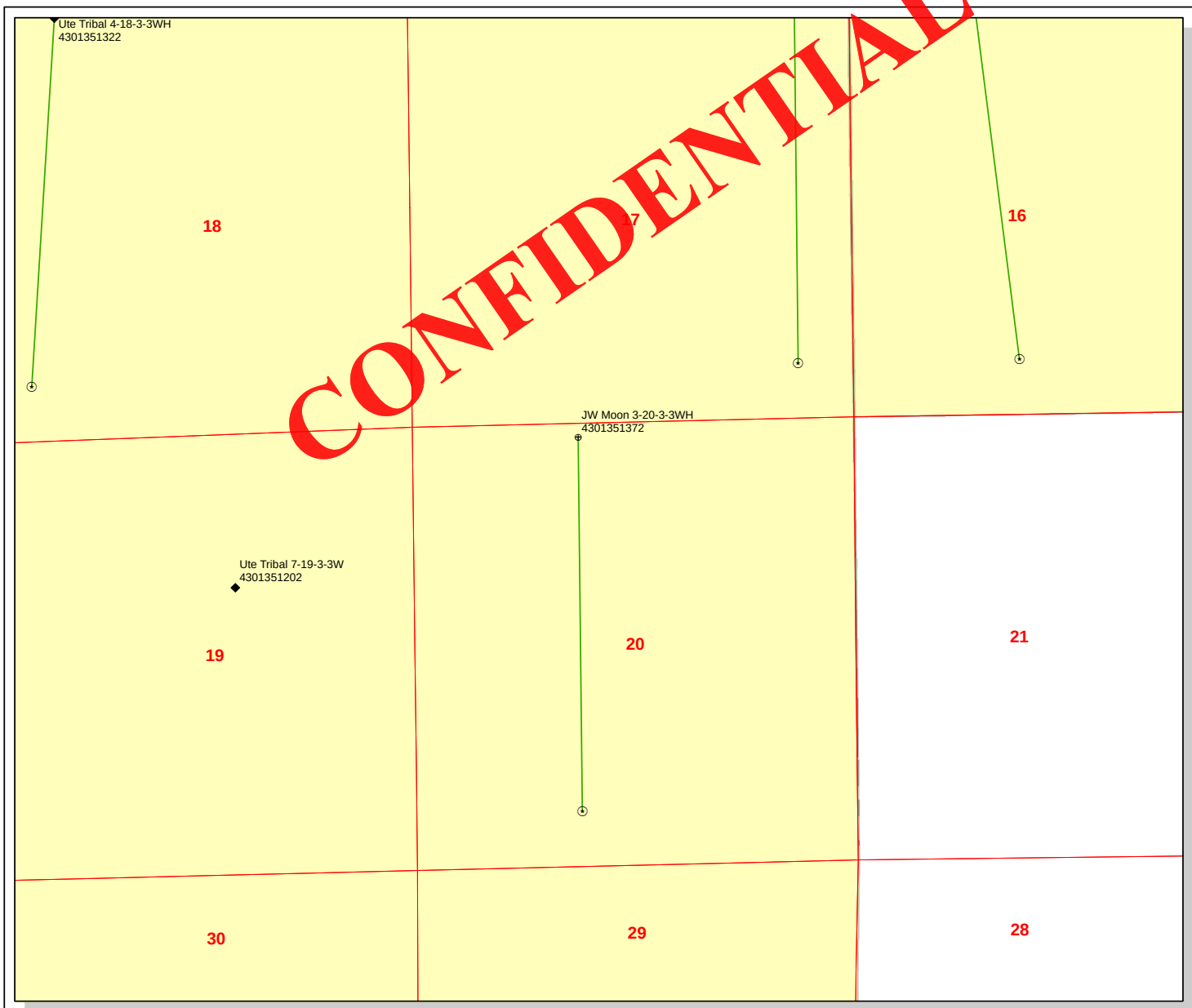
SURVEYED BY: D.P.	DATE SURVEYED: 12-28-11	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: R.B.T.	DATE DRAWN: 03-27-12	V2	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED: R.B.T. 04-04-12		

RECEIVED: April 16, 2012

API Well Number: 43013513720000



API Number: 4301351372

Well Name: JW Moon 3-20-3-3WH

Township T0.3 . Range R0.3 . Section 20

Meridian: UBM

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

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

Wells Query
Status
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- 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

1,500 750 0 1,500 Feet

1:14,558

RECEIVED: April 23, 2012

API Well Number: 43013513720000

BOPE REVIEW NEWFIELD PRODUCTION COMPANY JW Moon 3-20-3-3WH 43013513720000

Well Name	NEWFIELD PRODUCTION COMPANY JW Moon 3-20-3-3WH 43013513			
String	COND	SURF	I1	L1
Casing Size(")	14.000	9.625	7.000	4.500
Setting Depth (TVD)	60	2500	9105	13030
Previous Shoe Setting Depth (TVD)	0	60	2500	9105
Max Mud Weight (ppg)	8.3	8.3	11.5	11.5
BOPE Proposed (psi)	0	500	5000	5000
Casing Internal Yield (psi)	500	3520	9950	9950
Operators Max Anticipated Pressure (psi)	4918			7.3

Calculations	COND String	14.000	"
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	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1039	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	779	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	529	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	542	NO Reasonable depth, no pressures
Required Casing/BOPE Test Pressure=		2464	psi
*Max Pressure Allowed @ Previous Casing Shoe=		60	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	5445	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4352	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3442	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3992	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2500	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	7792	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	6228	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4925	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	6929	YES
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		9105	psi *Assumes 1psi/ft frac gradient

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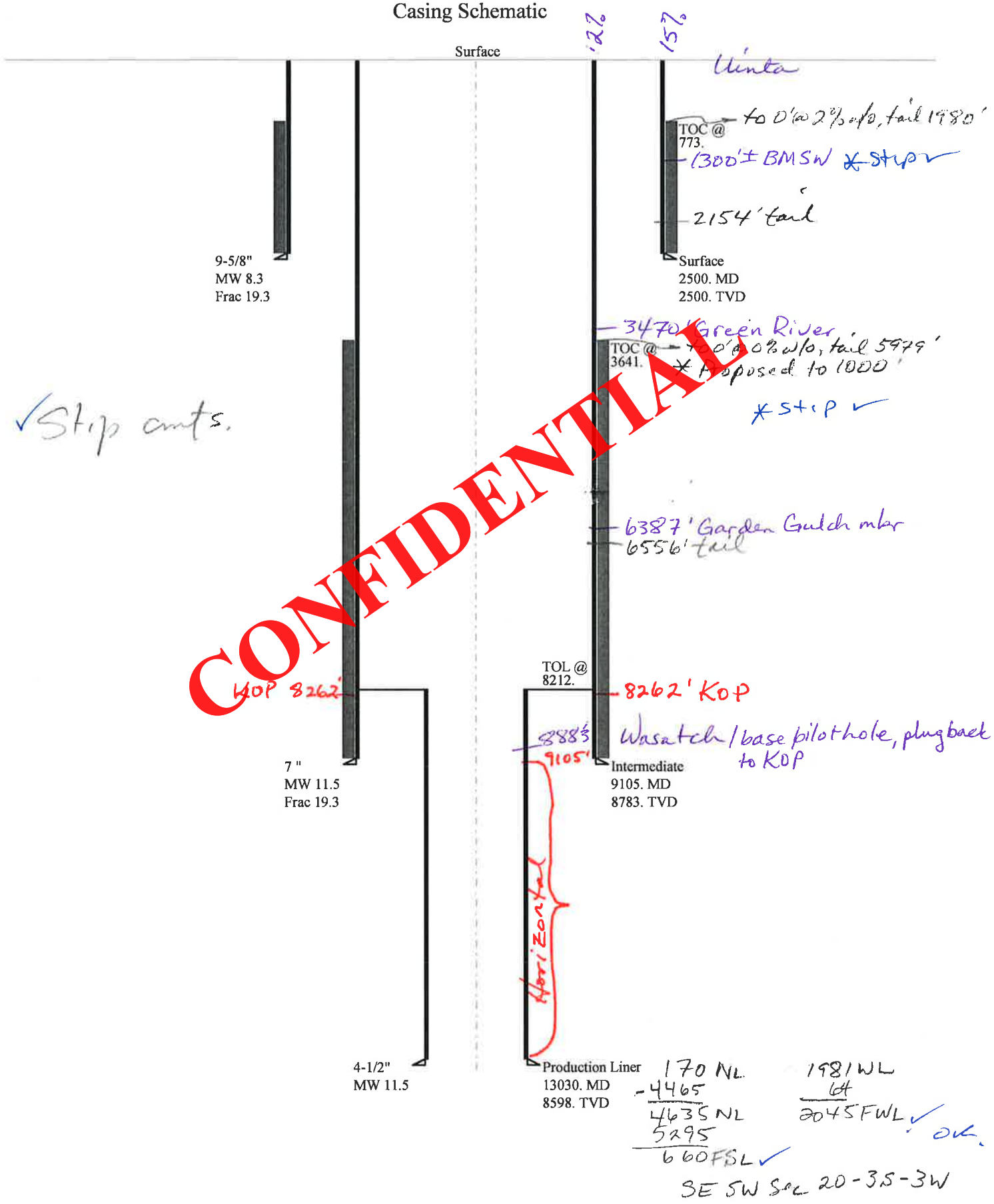
RECEIVED: July 17, 2012

API Well Number: 43013513720000

43013513720000 JW Moon 3-20-3-3WH

Casing Schematic



API Well Number: 43013513720000

Well name:	**43013513720000 JW Moon 3-20-3-3WH**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Surface
Project ID:	43-013-51372
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 8.330 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 2,200 psi

Internal gradient: 0.120 psi/ft

Calculated BHP 2,500 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: 1.70 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.50 (B)

Tension is based on air weight.

Neutral point: 2,192 ft

Environment:

H2S considered? No

Surface temperature: 74 °F

Bottom hole temperature: 109 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 100 ft

Cement top: 773 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 8,783 ft

Next mud weight: 11.500 ppg

Next setting BHP: 5,247 psi

Fracture mud wt: 19.250 ppg

Fracture depth: 2,500 ft

Injection pressure: 2,500 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	2500	9.625	36.00	J-55	ST&C	2500	2500	8.796	21730

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	1082	2020	1.867	2500	3520	1.41	90	394	4.38 J

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

Date: June 21,2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2500 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

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API Well Number: 43013513720000

Well name:	**43013513720000 JW Moon 3-20-3-3WH**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Intermediate
Project ID:	43-013-51372
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 11.500 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 3,315 psi

Internal gradient: 0.220 psi/ft

Calculated BHP 5,247 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 air weight.

Neutral point: 7,259 ft

Environment:

H2S considered? No

Surface temperature: 74 °F

Bottom hole temperature: 197 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 1,000 ft

Cement top: 3,641 ft

Directional well information:

Kick-off point 8262 ft

Departure at shoe: 545 ft

Maximum dogleg: 11 °/100ft

Inclination at shoe: 92.69 °

Re subsequent strings:

Next setting depth: 8,783 ft

Next mud weight: 11.500 ppg

Next setting BHP: 5,247 psi

Fracture mud wt: 19.250 ppg

Fracture depth: 8,783 ft

Injection pressure: 8,783 psi

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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	9105	7	26.00	P-110	Buttress	8783	9105	6.151	101257

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	5247	5915	1.127	5247	9950	1.90	228.4	830.4	3.64 B

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

Date: June 21,2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8783 ft, a mud weight of 11.5 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: 43013513720000

Well name:	**43013513720000 JW Moon 3-20-3-3WH**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Production Liner
Project ID:	43-013-51372
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 11.500 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 3,245 psi

Internal gradient: 0.220 psi/ft

Calculated BHP 5,136 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 air weight.

Neutral point: 8,545 ft

Environment:

H2S considered? No

Surface temperature: 74 °F

Bottom hole temperature: 194 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 1,000 ft

Liner top: 8,212 ft

Directional Info - Build & Hold

Kick-off point 8262 ft

Departure at shoe: 4466 ft

Maximum dogleg: 11 °/100ft

Inclination at shoe: 92.7 °

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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	4830	4.5	13.50	P-110	Buttress	8598	13030	3.795	28977

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	5136	10680	2.079	5177	12410	2.40	5.4	421.9	78.53 B

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

Date: June 21,2012
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft.Collapse is based on a vertical depth of 8598 ft, a mud weight of 11.5 ppg The 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: 43013513720000

NEWFIELD
ROCKY MOUNTAINS

July 24, 2012

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

RE: **JW Moon 3-20-3-3WH**
Section 20, T3S, R3W
Duchesne County, Utah

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Dear Brad,

Newfield Production Company proposes to drill the J W Moon 3-20-3-3WH from a surface location of 170' FNL and 1981' FWL of Section 20, T3S, R3W. Newfield shall case and cement the J W Moon 3-2-3-3WH wellbore from the surface location to the point where the wellbore reaches the legal setback of 660' FNL of Section 20, T3S, R3W. The cased and cemented portion of the wellbore shall not be perforated nor produced. In the event a future recompletion into the cased and cemented portion of the wellbore is proposed, Newfield shall file the appropriate application with the State.

Newfield owns a 97% working interest and is operator of the McKenna 1-17-3-3W located in the northern offset drilling and spacing unit (Section 17, T3S, R3W). Title curative is being conducted to identify the ownership of the remaining 3% interest. Due to the above circumstances, Newfield respectfully requests that DOGM administratively grant an exception location for the J W Moon 3-20-3-3WH.

If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4496 or by email at laurasmith@newfield.com . Your consideration of this matter is greatly appreciated.

Sincerely,

Laura B. Smith

Laura B. Smith
Land Lead

1001 17th Street, Suite 2000 Denver, CO 80202 (303) 893-0102 Fax (303) 893-0103

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

Operator	NEWFIELD PRODUCTION COMPANY				
Well Name	JW Moon 3-20-3-3WH				
API Number	43013513720000	**APD No**	5605	**Field/Unit**	WILDCAT
Location: 1/4,1/4	NENW **Sec** 20 **Tw** 3.0S **Rng** 3.0W			170 FNL 1981 FWL	
GPS Coord (UTM)	563900 4451773	**Surface Owner**		Henry Lamar Jones and Jo Viviane Jones	

Participants

T. Eaton- Newfield; C. Jensen - DOGM; Hank Jones - Landowner

Regional/Local Setting & Topography

This location is within what is known as the Central Basin Unit approximately in Duchesne County below the Eastern edge of the Blue Bench. The city of Myton is 11 road miles East. The surrounding topography is fairly flat with slopes

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Surface Use Plan

Current Surface Use

Grazing

New Road Miles	Well Pad	Src Const Material	Surface Formation
3.2	**Width** 300 **Length** 400	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Dominant vegetation;
Greasewood, shadscale and rabbit brush surround the proposed site.
Wildlife;
Habitat contains forbs that may be suitable browse for deer, antelope and rabbits, though none were observed.

Soil Type and Characteristics

silty sands shallowly sloped with some evidence of erosion from sheet flow

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

RECEIVED: August 02, 2012

API Well Number: 43013513720000

Berm Required? Y

Erosion Sedimentation Control Required? N

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

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	300 to 1000	2
Dist. Nearest Municipal Well (ft)	1320 to 5280	5
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	32 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?** N

Other Observations / Comments

Chris Jensen — **Evaluator**

4/30/2012 — **Date / Time**

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RECEIVED: August 02, 2012

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
5605	43013513720000	LOCKED	OW	P	No

Operator	NEWFIELD PRODUCTION COMPANY	**Surface Owner-APD**	Henry Lamar Jones and Jo Viviane Jones
Well Name	JW Moon 3-20-3-3WH	**Unit**	
Field	WILDCAT	**Type of Work**	DRILL
Location	NENW 20 3S 3W U 170 FNL 1981 FWL GPS Coord (UTM) 563897E 4451766N		

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Geologic Statement of Basis

Newfield proposes to set 60' of conductor and 2,500' of surface casing at this location. The base of the moderately saline water at this location is estimated to be at a depth of 1,300'. Air and or fresh water will be used to drill the entire surface hole. A search of Division of Water Rights records shows 8 water wells within a 10,000 foot radius of the center of Section 20. Depth is listed as ranging from 120 to 300 feet. Depths are not listed for 2 wells. Water use is listed as irrigation, stock watering and domestic use. There is 1 well within 1/2 mile of the proposed location. The surface formation at this site is 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. The surface casing cement should be brought back to ground surface.

Brad Hill	5/21/2012
APD Evaluator	**Date / Time**

Surface Statement of Basis

Operator has a surface agreement in place with the landowner. Location is proposed in the best possible position within the spacing window. Access road is going to be placed along the Norhter most boundary of the parcel .
The soil type and topography at present do not combine to pose a significant threat to erosion or sediment/ pollution transport in these regional climate conditions. Construction standards of the Operator appear to be adequate for the proposed purpose. I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. The landowner was invited and was in attendance for the pre-site inspection. The location should be bermed to prevent spills from leaving the confines of the pad. Fencing around the reserve pit will be necessary once the well is drilled to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit.

Chris Jensen	4/30/2012
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 shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

RECEIVED: August 02, 2012

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RECEIVED: August 02, 2012

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 4/16/2012 **API NO. ASSIGNED:** 43013513720000
WELL NAME: JW Moon 3-20-3-3WH
OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695) **PHONE NUMBER:** 435 719-2018
CONTACT: Don Hamilton

PROPOSED LOCATION: NENW 20 030S 030W **Permit Tech Review:** ✔

SURFACE: 0170 FNL 1981 FWL **Engineering Review:** ✔

BOTTOM: 0660 FSL 1980 FWL **Geology Review:** ✔

COUNTY: DUCHESNE
LATITUDE: 40.21387 **LONGITUDE:** -110.24909
UTM SURF EASTINGS: 563897.00 **NORTHINGS:** 4451766.00
FIELD NAME: WILDCAT
LEASE TYPE: 4 - Fee
LEASE NUMBER: Patented **PROPOSED PRODUCING FORMATION(S):** GREEN RIVER
SURFACE OWNER: 4 - Fee **COALBED METHANE:** NO

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RECEIVED AND/OR REVIEWED:

- ✔ **PLAT**
- ✔ **Bond:** STATE - B001834
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ✔ **Water Permit:** 437478
- ☐ **RDCC Review:**
- ✔ **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:** Cause 139-90
  - **Effective Date:** 5/9/2012
  - **Siting:** (4) Producing Grrv-Wstc Wells in Sec Drl Unit
- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
1 - Exception Location - bhill
5 - Statement of Basis - bhill
12 - Cement Volume (3) - hmacdonald
25 - Surface Casing - hmacdonald
27 - Other - bhill
28 - Other2 - bhill

RECEIVED: August 02, 2012

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: JW Moon 3-20-3-3WH
API Well Number: 43013513720000
Lease Number: Patented
Surface Owner: FEE (PRIVATE)
Approval Date: 8/2/2012

Issued to:
NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

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 Cause 139-90. The expected producing formation or pool is the GREEN RIVER 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:
Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 1000' MD as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days

following completion of the well.

This well shall not be completed in any zone other than the horizontal portion of the wellbore without prior approval by the Division.

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

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BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 29 Submitted By Branden Arnold Phone Number 435-401-0223
Well Name/Number JW Moon 3-20-3-3WH
Qtr/Qtr NE/NW Section 20 Township 3S Range 3W
Lease Serial Number Patented
API Number 43-013-51372

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 8/8/12 9:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

Date/Time 8/8/12 5:00 AM ☐ PM ☒

BOPE

☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks _____

B	99999	17400	4301351106	GMBU R-12-9-15	SWSE	12	9S	15E	DUCHESNE	8/30/2012	9/21/12

GRRV BHL: neSW

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	17400	4301351166	GMBU H-10-9-16	SWNE	10	9S	16E	DUCHESNE	9/3/2012	9/21/12

GRRV BHL: neNW

ACTION B	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE
B	99999	17400	4301351167	GMBU I-10-9-16	SWNE	10	9S	16E	DUCHESNE	9/4/2012	9/21/12

GRRV BHL: nene

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A	99999	18711	4301351372	JW MOON 3-20-3-3WH	NENW	20	3S	3W	DUCHESNE	8/13/2012	9/21/12

GRRV BHL: SeSW

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A - ı new entity for new well (single well only)
B - well to existing entity (group or unit well)
C - rom one existing entity to another existing entity
D - well from one existing entity to a new entity
E - ther (explain in comments section)

Tasha Robison
Signature

Tasha Robison

Production Clerk 08/15/12

NOTE: Use COMMENT section to explain why each Action Code was selected.

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Div. of Oil, Gas & Mining

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

FORM 9

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.

5.LEASE DESIGNATION AND SERIAL NUMBER: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: JW MOON 3-20-3-3WH

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013513720000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0170 FNL 1981 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 20 Township: 03.0S Range: 03.0W Meridian: U

COUNTY: DUCHESNE

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: 10/15/2012
- ☐ 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.

Newfield Production Company respectfully requests approval for minor changes to the previously approved drilling plan for the referenced well to include elimination of the pilot hole and plug back, cementing the liner, and using the actual mud weight. Attached please find an updated drilling plan for review and approval.

Approved by the Utah Division of Oil, Gas and Mining

Date: October 11, 2012

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Don Hamilton	435 719-2018	Permitting Agent

SIGNATURE	DATE
N/A	10/8/2012

RECEIVED: Oct. 08, 2012

Newfield Production Company
JW Moon 3-20-3-3WH
Surface Hole Location: 170' FNL, 1981' FWL, Section 20, T3S, R3W
Bottom Hole Location: 660' FSL,1980' FWL, Section 20, T3S, R3W
Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta	surface
Green River	3,470'
Garden Gulch member	6,387'
Wasatch	8,883'
Lateral TD	8,598' TVD / 13,030' MD

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

Base of moderately saline	664'	(water)
Green River	6,387' - 8,883'	(oil)
Wasatch	8,883' - 8,598'	(oil)

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

4. Casing

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor	0'	60'	37	H-40	Weld	--	--	--	--	--	--
14									--	--	--
Surface	0'	2,500'	36	J-55	LTC	8.33	8.33	14	3,520	2,020	453,000
9 5/8									2.12	2.54	5.03
Intermediate	0'	8,783'	26	P-110	BTC	11	12.8	15	9,960	6,210	830,000
7		9,105'							2.40	1.25	3.51
Production	8,212'	8,598'	13.5	P-110	BTC	11	12.8	--	12,410	10,670	422,000
4 1/2		13,030'							3.06	2.19	6.49

Assumptions:

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

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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	41 / 35	15%	15.8	1.17
Surface Lead	12 1/4	2,000'	Premium Lite II w/ 3% KCl + 10% bentonite	720 / 204	15%	11.0	3.53
Surface Tail	12 1/4	500'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	180 / 154	15%	15.8	1.17
Intermediate Lead	8 3/4	5,387'	Versacem	931 / 568	15%	13.0	1.64
Intermediate Tail	8 3/4	2,718'	Bondcem	470 / 364	15%	14.0	1.29
Production	6 1/8	4,818'	Expandacem - N2 foam cement	522 / 357	15%	12.5	1.46

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 intermediate casing string will be calculated from an open hole caliper log, plus 15% excess.

The cement slurries will be adjusted for hole conditions and blend test results.

6. Type and Characteristics of Proposed Circulating Medium

Interval	Description
Surface - 2,500'	An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.
2,500' - TD	A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite. Anticipated maximum mud weight is 12.8 ppg.

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7. Logging, Coring, and Testing

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

Cores: As deemed necessary.

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

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.57 psi/ft gradient.

8,598' x 0.57 psi/ft = 4918 psi

No abnormal temperature is expected. No H_2S is expected.

9. Other Aspects

An 8-3/4" vertical hole will be drilled to a kick off point of 8,262' .
Directional tools will then be used to build to 92.70 degrees inclination.
The 7" intermediate casing string will be set once the well is landed horizontally in the target zone.

The lateral will be drilled to the bottomhole location shown on the plat.
A liner will be run and cemented in place. The top of the liner will be placed 50' above KOP and will be isolated with a liner top packer.

Newfield requests the following variances from Onshore Order #2:
- Variance from Onshoer Order #2, III.E.1
  Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

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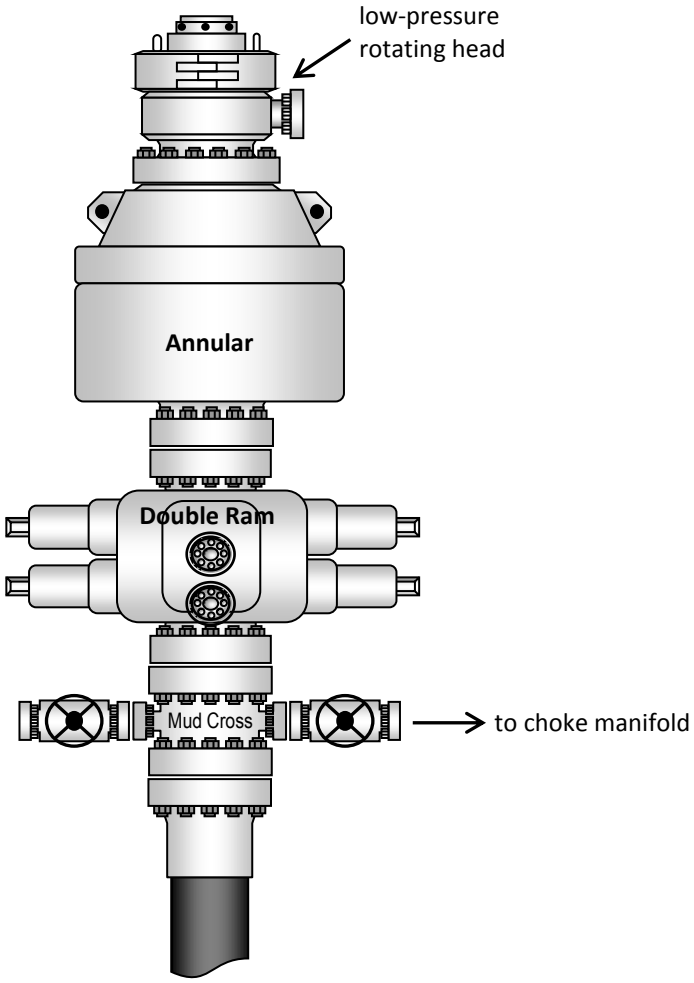
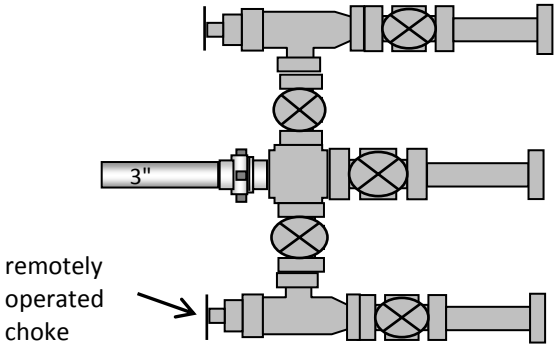
Typical 5M BOP stack configuration



Typical 5M choke manifold configuration



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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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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.

7. UNIT or CA AGREEMENT NAME: UINTA CB -BASAL CARB

1. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER

8. WELL NAME and NUMBER: JW MOON 3-20-3-3WH

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 4301351372

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

10. FIELD AND POOL, OR WILDCAT: UINTA CENTRAL BASIN

4. LOCATION OF WELL:

FOOTAGES AT SURFACE:

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NENW, 20, T3S, R3W

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
[ ] NOTICE OF INTENT (Submit in Duplicate)	[ ] ACIDIZE	[ ] DEEPEN	[ ] REPERFORATE CURRENT FORMATION
Approximate date work will	[ ] ALTER CASING	[ ] FRACTURE TREAT	[ ] SIDETRACK TO REPAIR WELL
	[ ] CASING REPAIR	[ ] NEW CONSTRUCTION	[ ] TEMPORARITLY ABANDON
	[ ] CHANGE TO PREVIOUS PLANS	[ ] OPERATOR CHANGE	[ ] TUBING REPAIR
	[ ] CHANGE TUBING	[ ] PLUG AND ABANDON	[ ] VENT OR FLAIR
[X] SUBSEQUENT REPORT (Submit Original Form Only)	[ ] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
	[ ] CHANGE WELL STATUS	[ ] PRODUCTION (START/STOP)	[ ] WATER SHUT-OFF
Date of Work Completion:	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[X] OTHER: - Spud Notice
08/09/2012	[ ] CONVERT WELL TYPE	[ ] RECOMPLETE - DIFFERENT FORMATION	

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

On 8/8/12 MIRU Ross #29. Spud well @8:00 AM. Drill 63' of 17 1/2" hole with air mist. TIH W/ 2 Jt's 14" H-40 36.75# csgn. Set @ 81. On 8/9/12 cement with 90 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 9 barrels cement to pit. WOC.

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NAME (PLEASE PRINT) Branden Arnold TITLE

SIGNATURE DATE 09/06/2012

(This space for State use only)

RECEIVED
OCT 05 2012
DIV. OF OIL, GAS & MINING

Casing / Liner Detail

Well	JW Moon 3-20-3-3WH
Prospect	Central Basin
Foreman	
Run Date:	
String Type	Surface, 9.625", 36#, HCP-110, LTC (Generic)

- Detail From Top To Bottom -

Depth	*Length*	*JTS*	*Description*	*OD*	*ID*
2,534.61			18' KB		
18.00	1.42		Wellhead		
19.42	2473.41	56	9 5/8 Casing	9.625	
2,492.83	1.45		Float	9.625	
2,494.28	38.43	1	Shoe Joint	9.625	
2,532.71	1.90		Guide Shoe	9.625	
2,534.61			-		

Cement Detail

Cement Company: BJ

Slurry	# of Sacks	Weight (ppg)	Yield	Volume (ft^3)	Description - Slurry Class and Additives
Slurry 2	240	15.8	1.17	280.8	Class G+2%kcl+.25#CF
Slurry 1	556	12.5	1.97	1095.32	Prem 11+ 2%Cacl2+ .25#C.F .+. 5%S.M.+6%Ge

Stab-In-Job?	No
BHT:	0
Initial Circulation Pressure:	
Initial Circulation Rate:	
Final Circulation Pressure:	
Final Circulation Rate:	
Displacement Fluid:	Mud
Displacement Rate:	
Displacement Volume:	191.7
Mud Returns:	
Centralizer Type And Placement:	

Cement To Surface?	Yes
Est. Top of Cement:	0
Plugs Bumped?	Yes
Pressure Plugs Bumped:	1304
Floats Holding?	Yes
Casing Stuck On / Off Bottom?	No
Casing Reciprocated?	No
Casing Rotated?	No
CIP:	20:31
Casing Wt Prior To Cement:	
Casing Weight Set On Slips:	

Middle of first, top of second and every other for a total of six.

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: Patented

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:
JW MOON 3-20-3-3WH

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
43013513720000

3. ADDRESS OF OPERATOR:
Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER:
435 646-4825 Ext

9. FIELD and POOL or WILDCAT:
WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0170 FNL 1981 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENW Section: 20 Township: 03.0S Range: 03.0W Meridian: U

COUNTY:
DUCHESNE

STATE:
UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	✓ 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
✓ DRILLING REPORT Report Date: 11/9/2012	☐ 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.

The above well was placed on production on 11/09/2012 at 18:45 hours.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
December 28, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jennifer Peatross	435 646-4885	Production Technician

SIGNATURE	DATE
N/A	12/19/2012

RECEIVED: Dec. 19, 2012

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: PATENTED

1a. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator: NEWFIELD EXPLORATION COMPANY

8. Lease Name and Well No.: JW MOON 3-20-3-3WH

3. Address: 1401 17TH ST. SUITE 1000 DENVER, CO 80202

3a. Phone No. (include area code): (435) 646-3721

9. AFI Well No.: 43-013-51372

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

10. Field and Pool or Exploratory: WILDCAT

At surface 170' FNL & 1981' FWL (NE/NW) SEC. 20, T3S, R3W

11. Sec., T., R., M., on Block and Survey or Area: SEC. 20, T3S, R3W

At top prod. interval reported below 932' FNL & 1966' FWL (NE/NW) SEC. 20, T3S, R3W

At total depth ~~776~~ 63 FSL & ~~1959~~ 1946 FWL (SE/SW) SEC. 20, T3S, R3W BHL by HSM

12. County or Parish: DUCHESNE

13. State: UT

14. Date Spudded: 08/08/2012

15. Date T.D. Reached: 10/14/2012

16. Date Completed: 11/09/2012 ☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*: 5356' GL 5374' KB

18. Total Depth: MD 12913' TVD 8584' 6

19. Plug Back T.D.: MD 12822' TVD 8559

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each): DUAL IND GRD, SP, COMP. DENSITY,COMP. NEUTRON,GR,CALIPER, CMT BOND

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☑ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	9-5/8" P-110	36#	0	2535'		556 PREMLITE			
						240 CLASS G			
8-3/4"	7" P-110	26#	0	9125'		650 VERSACM		1200'	
						400 BONDCEM			
6-1/8"	4-1/2" P-110	13.5#	8198'	12910'		285 PREMLITE			
						50 CLASS G			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT @ 8132'	Hornet CE @ 8114'						

25. Producing Intervals

Formation	Top	Bottom
A) Wasatch	9187' MD	12811' MD
B)		
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
9187-12811' MD	0.49"	450	

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
9187-12811' MD	Frac w/ 22352 bbls Lightning 17 fluid; 1903922# 30/50 white sand and 61460# 100 mesh; 19 stages.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/10/12	11/20/12	24	→	582	347	214			WLEG

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					PRODUCING

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

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Div. of Oil, Gas & Mining

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

SOLD AND USED FOR FUEL

30. 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.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
WASATCH	9187' MD	12811' MD		GARDEN GULCH	6302'
				BI-CARBONATE	7759'
				B LIMESTONE	7927'
				CASTLE PEAK	8387'
				BASAL CARBONATE	8811'

32. Additional remarks (include plugging procedure):

33. *Indicate which items have been attached by placing a check in the appropriate boxes:*

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
- ☐ Geologic Report
- ☐ DST Report
- ☑ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
- ☐ Core Analysis
- ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Jennifer Peatross Title Production Technician

Signature Peatross Date 12/17/2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

HALLIBURTON

Sperry Drilling

Well:	JW Moon 3-20-3-3	Job Number:	9802923
API:		Engineer:	J Huckeby, R Elliott, F Gibs
County:	Duchesne	VS Direction:	179.99
State:	UT	North Reference:	TRUE

Tie-on Survey Data: Gyro

MD	INC	AZI	TVD	NS	EW
2557	0.44	138.62	2556.83	-11.35	2.06

MD	INC	AZI	TVD	NS	EW	VS	DLS
2578	0.82	133.75	2577.83	-11.51	2.22	11.51	1.8
2641	0.84	120.76	2640.82	-12.06	2.94	12.06	0.3
2704	0.8	102.64	2703.82	-12.39	3.77	12.4	0.42
2768	0.56	67.61	2767.81	-12.37	4.49	12.38	0.73
2831	0.64	74.54	2830.81	-12.16	5.12	12.17	0.18
2894	0.50	26.92	2893.81	-11.82	5.58	11.82	0.76
2957	0.72	326.62	2956.80	-11.24	5.49	11.25	1.02
3021	0.74	291.57	3020.80	-10.76	4.88	10.76	0.69
3084	0.44	246.93	3083.79	-10.70	4.28	10.70	0.84
3147	0.45	204.80	3146.79	-11.02	3.95	11.02	0.51
3210	0.76	163.07	3209.79	-11.65	3.97	11.65	0.83
3274	0.88	152.57	3273.78	-12.49	4.32	12.49	0.29
3337	0.61	109.84	3336.78	-13.03	4.86	13.04	0.95
3400	0.46	70.39	3399.78	-13.06	5.41	13.06	0.62
3462	0.48	355.00	3461.77	-12.72	5.63	12.72	0.93
3526	0.18	4.64	3525.77	-12.35	5.61	12.35	0.47
3589	0.14	157.78	3588.77	-12.32	5.65	12.32	0.49
3652	0.48	171.90	3651.77	-12.65	5.72	12.66	0.55
3716	0.29	160.46	3715.77	-13.07	5.81	13.07	0.32
3779	0.62	149.67	3778.77	-13.51	6.03	13.52	0.54
3843	0.99	175.21	3842.76	-14.36	6.25	14.37	0.79
3906	1.03	169.46	3905.75	-15.47	6.40	15.47	0.17
3970	1.64	178.66	3969.73	-16.95	6.53	16.95	1.00
4033	1.67	178.31	4032.71	-18.76	6.58	18.76	0.05
4097	2.02	174.73	4096.67	-20.82	6.71	20.82	0.59
4160	2.14	171.47	4159.63	-23.09	6.99	23.09	0.26
4224	2.18	171.99	4223.59	-25.47	7.33	25.47	0.07
4287	2.11	170.63	4286.54	-27.80	7.69	27.80	0.14
4350	2.12	167.71	4349.50	-30.08	8.12	30.09	0.17
4414	2.13	167.49	4413.46	-32.41	8.63	32.41	0.02
4477	1.89	154.86	4476.42	-34.49	9.33	34.49	0.80
4541	2.02	156.44	4540.38	-36.48	10.23	36.48	0.22

MD	INC	AZI	TVD	NS	EW	VS	DLS
4604	1.86	143.48	4603.35	-38.32	11.28	38.32	0.74
4667	1.73	143.06	4666.31	-39.90	12.46	39.91	0.21
4731	1.99	146.21	4730.28	-41.60	13.66	41.60	0.43
4794	1.84	150.63	4793.25	-43.39	14.77	43.39	0.33
4857	1.73	157.51	4856.21	-45.15	15.63	45.16	0.38
4920	1.65	149.75	4919.19	-46.82	16.45	46.82	0.38
4984	1.52	143.99	4983.16	-48.30	17.41	48.30	0.33
5047	1.55	140.55	5046.14	-49.63	18.44	49.63	0.16
5110	1.18	148.76	5109.12	-50.84	19.32	50.84	0.66
5174	1.23	150.33	5173.11	-52	20	52.01	0.1
5237	1.25	154.17	5236.09	-53.21	20.64	53.22	0.14
5301	1.00	119.12	5300.08	-54.11	21.43	54.12	1.12
5365	1.17	110.70	5364.07	-54.61	22.53	54.62	0.37
5428	1.19	88.80	5427.06	-54.83	23.79	54.83	0.71
5491	0.77	78.62	5490.05	-54.73	24.86	54.74	0.72
5554	0.17	27.08	5553.05	-54.56	25.32	54.57	1.08
5617	0.24	171.65	5616.05	-54.61	25.38	54.62	0.63
5681	0.45	128.86	5680.04	-54.91	25.60	54.91	0.50
5744	0.59	180.38	5743.04	-55.39	25.79	55.39	0.75
5817	0.65	148.16	5816.04	-56.12	26.00	56.12	0.48
5849	0.68	192.62	5848.04	-56.46	26.06	56.46	1.58
5912	1.04	187.02	5911.03	-57.39	25.91	57.39	0.59
5975	0.26	205.34	5974.02	-58.09	25.78	58.09	1.27
6038	0.35	219.67	6037.02	-58.36	25.59	58.36	0.18
6102	0.26	305.53	6101.02	-58.42	25.35	58.43	0.65
6165	0.31	211.55	6164.02	-58.49	25.15	58.49	0.66
6228	0.64	190.81	6227.02	-58.97	24.99	58.98	0.58
6291	0.73	160.09	6290.02	-59.70	25.06	59.70	0.59
6355	1.05	179.09	6354.01	-60.67	25.21	60.67	0.67
6418	0.78	200.28	6417.00	-61.65	25.07	61.65	0.68
6481	0.70	191.43	6479.99	-62.43	24.85	62.43	0.22
6545	1.11	183.90	6543.99	-63.42	24.73	63.43	0.66
6608	0.84	241.23	6606.98	-64.25	24.28	64.26	1.53
6672	0.62	243.72	6670.97	-64.63	23.56	64.64	0.35
6735	0.91	227.43	6733.97	-65.12	22.89	65.12	0.57
6798	1.02	247.40	6796.96	-65.67	22.00	65.68	0.56
6861	0.24	303.90	6859.95	-65.98	20.81	65.99	0.56
6925	0.31	262.34	6923.95	-65.76	21.09	65.77	0.32
6988	0.67	204.15	6986.95	-66.12	20.77	66.12	0.9
7051	1.13	191.44	7049.94	-67.06	20.50	67.07	0.80
7114	0.54	159.15	7112.94	-67.95	20.48	67.95	1.16
7177	0.65	164.94	7175.93	-68.57	20.68	68.57	0.19
7240	1.09	172.20	7238.93	-69.50	20.85	69.50	0.72
7304	1.63	171.24	7302.91	-71.00	21.07	71.00	0.85
7367	1.19	174.05	7365.89	-72.53	21.27	72.53	0.71

MD	INC	AZI	TVD	NS	EW	VS	DLS
7430	1.29	181.15	7428.88	-73.89	21.33	73.89	0.30
7493	1.05	173.85	7491.86	-75.17	21.37	75.17	0.46
7556	1.65	178.58	7554.84	-76.65	21.46	76.65	0.97
7620	1.48	198.37	7618.82	-78.35	21.22	78.36	0.88
7683	1.63	197.64	7681.80	-79.98	20.69	79.98	0.24
7746	1.50	202.46	7744.77	-81.59	20.11	81.60	0.29
7810	1.24	196.73	7808.76	-83.03	19.59	83.04	0.46
7873	0.82	160.78	7871.75	-84.11	19.54	84.12	1.19
7937	1.26	119.69	7935.74	-84.90	20.30	84.90	1.31
8000	1.68	96.85	7998.72	-85.35	21.82	85.35	1.13
8064	0.84	95.95	8062.70	-85.51	23.22	85.52	1.31
8127	1.33	157.84	8125.69	-86.24	23.96	86.24	1.89
8190	1.63	193.63	8188.67	-87.78	24.02	87.79	1.51
8218	1.59	210.91	8216.66	-88.51	23.73	88.51	1.73
8271	3.85	209.32	8269.60	-90.69	22.48	90.69	4.26
8302	8.40	199.16	8300.41	-93.73	21.23	93.74	15.04
8334	11.60	199.89	8331.92	-98.96	19.37	98.97	10.00
8365	14.72	199.14	8362.11	-105.62	17.01	105.62	10.11
8397	18.09	198.09	8392.80	-114.19	14.14	114.19	10.57
8429	21.49	196.89	8422.90	-124.52	10.89	124.52	10.67
8460	24.62	195.59	8451.42	-136.18	7.50	136.18	10.25
8491	27.97	194.58	8479.21	-149.44	3.94	149.44	10.90
8523	31.59	194.38	8506.98	-164.82	-0.03	164.82	11.31
8555	35.51	191.09	8533.65	-182.07	-3.90	182.07	13.49
8586	38.82	190.66	8558.35	-200.46	-7.43	200.46	10.71
8618	43.14	188.18	8582.50	-221.16	-10.85	221.15	14.42
8650	46.68	186.05	8605.16	-243.57	-13.63	243.57	12.02
8682	51.05	184.62	8626.21	-267.56	-15.86	267.56	14.08
8713	54.80	183.29	8644.90	-292.23	-17.56	292.23	12.57
8745	59.32	181.45	8662.29	-319.05	-18.66	319.05	14.91
8777	62.71	179.82	8677.80	-347.04	-18.96	347.03	11.50
8808	67.69	178.93	8690.80	-375.17	-18.65	375.16	16.27
8840	71.48	178.52	8701.96	-405.14	-17.98	405.14	11.93
8872	73.66	179.00	8711.54	-435.67	-17.31	435.66	6.96
8903	75.82	179.50	8719.70	-465.57	-16.92	465.57	7.14
8935	78.24	179.29	8726.88	-496.75	-16.59	496.75	7.56
8967	81.14	179.93	8732.61	-528.23	-16.38	528.22	9.29
8998	83.85	180.40	8736.66	-558.96	-16.47	558.96	8.89
9030	85.06	179.75	8739.75	-590.81	-16.51	590.80	4.27
9062	87.26	179.26	8741.90	-622.73	-16.23	622.73	7.04
9093	89.26	178.95	8742.84	-653.71	-15.74	653.71	6.55
9138	89.88	180.19	8743.18	-698.71	-15.40	698.71	3.09
9169	90.00	179.38	8743.21	-729.71	-15.29	729.71	2.63
9201	90.06	179.53	8743.19	-761.71	-14.99	761.70	0.48
9233	90.00	179.67	8743.18	-793.71	-14.76	793.70	0.49

MD	INC	AZI	TVD	NS	EW	VS	DLS
9264	90.06	179.88	8743.16	-824.71	-14.64	824.70	0.69
9296	90.99	179.68	8742.87	-856.70	-14.52	856.70	2.96
9328	92.96	181.00	8741.76	-888.68	-14.71	888.68	7.44
9360	93.09	180.59	8740.07	-920.63	-15.15	920.63	1.36
9391	91.79	180.16	8738.75	-951.60	-15.35	951.60	4.40
9423	89.51	179.91	8738.39	-983.60	-15.37	983.60	7.18
9455	89.81	179.77	8738.58	-1015.60	-15.28	1015.60	1.06
9487	90.86	179.98	8738.39	-1047.60	-15.21	1047.60	3.34
9518	90.43	180.27	8738.04	-1078.60	-15.28	1078.59	1.67
9550	89.81	180.14	8737.97	-1110.60	-15.39	1110.59	1.97
9582	91.79	180.82	8737.52	-1142.59	-15.66	1142.59	6.54
9613	92.23	180.34	8736.44	-1173.57	-15.98	1173.57	2.11
9645	92.59	180.28	8735.09	-1205.54	-16.15	1205.54	1.16
9676	95.21	180.06	8732.98	-1236.47	-16.24	1236.46	8.45
9708	94.94	179.23	8730.15	-1268.34	-16.05	1268.34	2.71
9740	92.48	179.34	8728.08	-1300.27	-15.65	1300.26	7.72
9771	91.61	178.94	8726.97	-1331.24	-15.19	1331.24	3.09
9803	92.84	179.37	8725.73	-1363.22	-14.71	1363.21	4.07
9866	92.10	179.24	8723.02	-1426.15	-13.95	1426.15	1.20
9930	92.84	179.66	8720.26	-1490.09	-13.34	1490.09	1.33
9993	92.10	179.87	8717.55	-1553.03	-13.08	1553.03	1.22
10056	92.10	179.22	8715.24	-1615.99	-12.59	1615.98	1.03
10120	92.29	179.92	8712.79	-1679.94	-12.10	1679.93	1.12
10183	93.15	179.50	8709.80	-1742.86	-11.79	1742.86	1.51
10247	93.16	179.21	8706.28	-1806.76	-11.07	1806.76	0.46
10310	93.15	179.29	8702.82	-1869.66	-10.24	1869.66	0.13
10373	92.48	179.28	8699.72	-1932.58	-9.46	1932.58	1.07
10437	91.42	178.60	8697.55	-1996.53	-8.28	1996.53	1.97
10500	92.22	179.21	8695.54	-2059.49	-7.07	2059.49	1.61
10564	93.09	178.96	8692.58	-2123.41	-6.05	2123.41	1.41
10627	92.91	178.97	8689.29	-2186.31	-4.92	2186.31	0.29
10690	92.47	177.87	8686.33	-2249.22	-3.18	2249.22	1.89
10753	92.78	178.79	8683.44	-2312.13	-1.35	2312.13	1.55
10817	92.47	177.99	8680.51	-2376.03	0.45	2376.03	1.35
10880	92.29	178.13	8677.90	-2438.94	2.59	2438.94	0.37
10944	93.15	178.48	8674.86	-2502.84	4.48	2502.84	1.46
11007	92.54	179.29	8671.74	-2565.75	5.70	2565.75	1.61
11071	92.59	178.85	8668.88	-2629.68	6.74	2629.68	0.69
11134	91.36	178.49	8666.70	-2692.62	8.20	2692.62	2.04
11165	91.36	177.90	8665.97	-2723.60	9.18	2723.60	1.90
11197	91.36	177.87	8665.21	-2755.57	10.36	2755.57	0.09
11229	92.97	178.61	8664.00	-2787.53	11.35	2787.53	5.54
11260	93.27	179.02	8662.31	-2818.48	11.99	2818.48	1.65
11324	94.33	179.43	8658.07	-2882.33	12.85	2882.33	1.77
11356	93.90	179.02	8655.78	-2914.24	13.28	2914.24	1.87

MD	INC	AZI	TVD	NS	EW	VS	DLS
11387	94.02	178.68	8653.64	-2945.16	13.90	2945.16	1.18
11451	93.09	177.16	8649.66	-3008.99	16.22	3009.00	2.77
11483	93.03	176.71	8647.96	-3040.90	17.93	3040.91	1.43
11514	92.78	176.47	8646.39	-3071.81	19.78	3071.81	1.11
11578	94.20	177.01	8642.49	-3135.58	23.41	3135.59	2.38
11641	95.32	178.79	8637.26	-3198.32	25.72	3198.32	3.32
11673	91.79	175.97	8635.27	-3230.22	27.18	3230.22	14.09
11704	92.35	177.77	8634.15	-3261.15	28.87	3261.15	6.07
11768	92.90	179.34	8631.22	-3325.06	30.48	3325.06	2.59
11831	92.10	178.14	8628.47	-3387.98	31.87	3387.99	2.29
11895	91.23	177.66	8626.61	-3451.91	34.22	3451.92	1.55
11958	91.42	178.08	8625.15	-3514.85	36.56	3514.86	0.73
12022	90.49	177.80	8624.08	-3578.80	38.86	3578.81	1.51
12085	91.73	180.35	8622.86	-3641.77	39.87	3641.78	4.50
12148	91.67	181.33	8620.99	-3704.74	38.94	3704.74	1.56
12211	92.47	182.91	8618.71	-3767.65	36.61	3767.66	2.81
12275	92.16	182.89	8616.13	-3831.52	33.37	3831.52	0.49
12338	91.61	183.21	8614.06	-3894.39	30.02	3894.40	1.01
12401	93.15	185.86	8611.44	-3957.13	25.04	3957.14	4.85
12465	92.91	186.05	8608.06	-4020.70	18.42	4020.70	0.49
12528	93.09	186.70	8604.77	-4083.22	11.43	4083.23	1.08
12591	93.15	186.92	8601.34	-4145.69	3.97	4145.69	0.36
12654	93.96	188.98	8597.43	-4207.96	-4.72	4207.96	3.51
12718	91.61	186.56	8594.33	-4271.29	-13.36	4271.28	5.26
12781	93.90	188.48	8591.30	-4333.67	-21.60	4333.66	4.74
12844	91.91	187.26	8588.10	-4395.99	-30.21	4395.98	3.70
12877	93.40	189.00	8586.57	-4428.62	-34.87	4428.61	6.94

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