

Well Name: PRINCE FEDERAL 19B	Well Location: T17S / R28E / SEC 24 / SENE /	County or Parish/State:
Well Number: 001H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM14847	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001548302	Well Status: Approved Application for Permit to Drill	Operator: LONGFELLOW ENERGY LP

Notice of Intent

Sundry ID: 2690397

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 09/01/2022	Time Sundry Submitted: 12:45
Date proposed operation will begin: 10/01/2022	

Procedure Description: Due to rig layout requirements, SHL has moved from 2319' FNL & 1303' FEL to 2158' FNL & 1323' FEL. No change in take points or BHL. TVD was 4040' and will now be 4172'. MD was 9219' and will now be 9342'. Well bore views and diagram attached.

Surface Disturbance

Is any additional surface disturbance proposed?: Yes

Proposed Disturbance(acres): 4.02	Interim Reclamation (acres): 0.57	Long Term Disturbance (acres): 3.45
Surface Disturbance:		

NOI Attachments

- Procedure Description
- Prince_19B_1H_Well_Site_Layout_20220901123312.pdf
 - Prince_19B_1H_Well_Bore_Diagram_20220901123252.pdf
 - Prince_19B_1H_Horizontal_Plan_20220901123243.pdf
 - Prince_19B_1H_C102_20220901123226.pdf

Well Name: PRINCE FEDERAL 19B	Well Location: T17S / R28E / SEC 24 / SENE /	County or Parish/State:
Well Number: 001H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM14847	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001548302	Well Status: Approved Application for Permit to Drill	Operator: LONGFELLOW ENERGY LP

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: BRIAN WOOD
Signed on: SEP 01, 2022 12:42 PM
Name: LONGFELLOW ENERGY LP
Title: President
Street Address: 37 VERANO LOOP
City: SANTA FE **State:** NM
Phone: (505) 466-8120
Email address: AFMSS@PERMITSWEST.COM

Field

Representative Name:
Street Address:
City: **State:** **Zip:**
Phone:
Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 09/15/2022
Signature: Chris Walls	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
Change SHL from
2319 FNL & 1303 FEL
to that shown below

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-48302	² Pool Code 96210	³ Pool Name EMPIRE; GLORIETA-YESO
⁴ Property Code 330799	⁵ Property Name PRINCE FEDERAL 19B	⁶ Well Number 001H
⁷ OGRID No. 372210	⁸ Operator Name LONGFELLOW ENERGY, LP	⁹ Elevation 3696.8

¹⁰ Surface Location

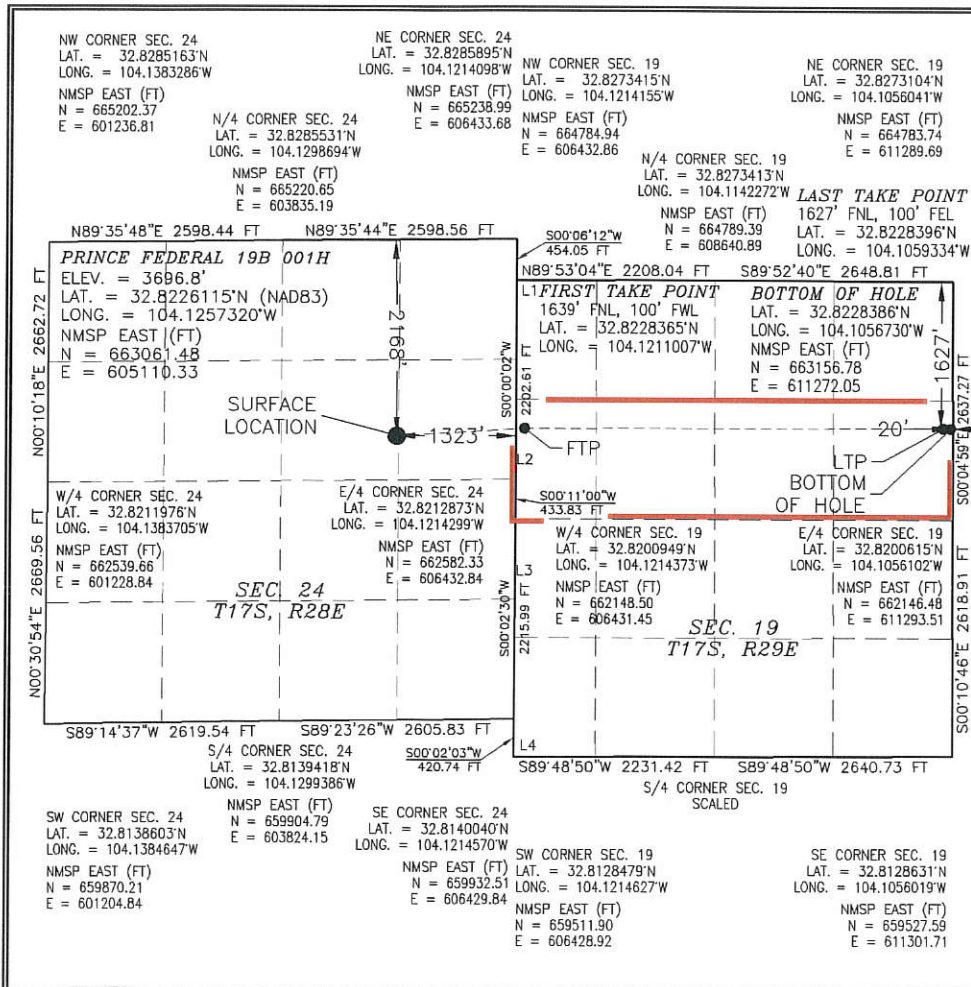
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	24	17 S	28 E		2168	NORTH	1323	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	19	17 S	29 E		1627	NORTH	20	EAST	EDDY

¹² Dedicated Acres 147.28	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Brian Wood* Date: **8-30-22**

Printed Name: **BRIAN WOOD**
brian@permitswest.com

E-mail Address: **505 466-8120**

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JULY 6, 2022

Date of Survey

Signature and Seal of Professional Surveyor: *William F. Jaramila*
Certificate Number: **12797**
Professional Surveyor License No. 8435A



Longfellow Energy

Eddy Co., NM (Nad-83)
PRINCE FEDERAL 19B
001H

Wellbore #1

Plan: PLAN #1

Standard Planning Report

23 August, 2022





Company: Longfellow Energy
Project: Eddy Co., NM (Nad-83)
Site: PRINCE FEDERAL 19B
Well: 001H
Wellbore: Wellbore #1
Rig: AKITA 524
Design: PLAN #1 / 12:24, August 23 2022



DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PRINCE #1: BHL	4172.00	95.30	6161.72	663156.78	611272.05	32.822839	-104.105673
PRINCE #1: FTP	4070.00	84.67	1422.51	663146.15	606532.84	32.822837	-104.121101
PRINCE #1: LTP	4170.28	95.49	6081.73	663156.97	611192.06	32.822840	-104.105933
PRINCE #1: SHL	0.00	0.00	0.00	663061.48	605110.33	32.822612	-104.125732

WELL DETAILS: 001H

RKB = 17' @ 3713.80usft (AKITA 524)
3696.80

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	663061.48	605110.33	32.822612	-104.125732

SECTION DETAILS

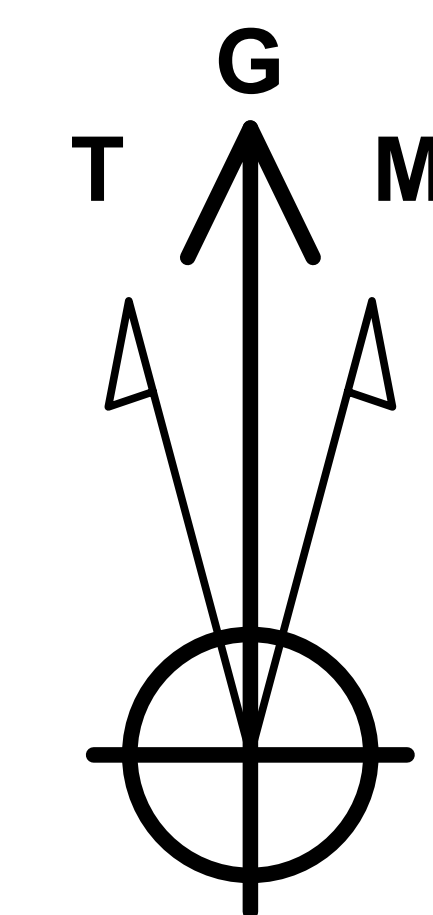
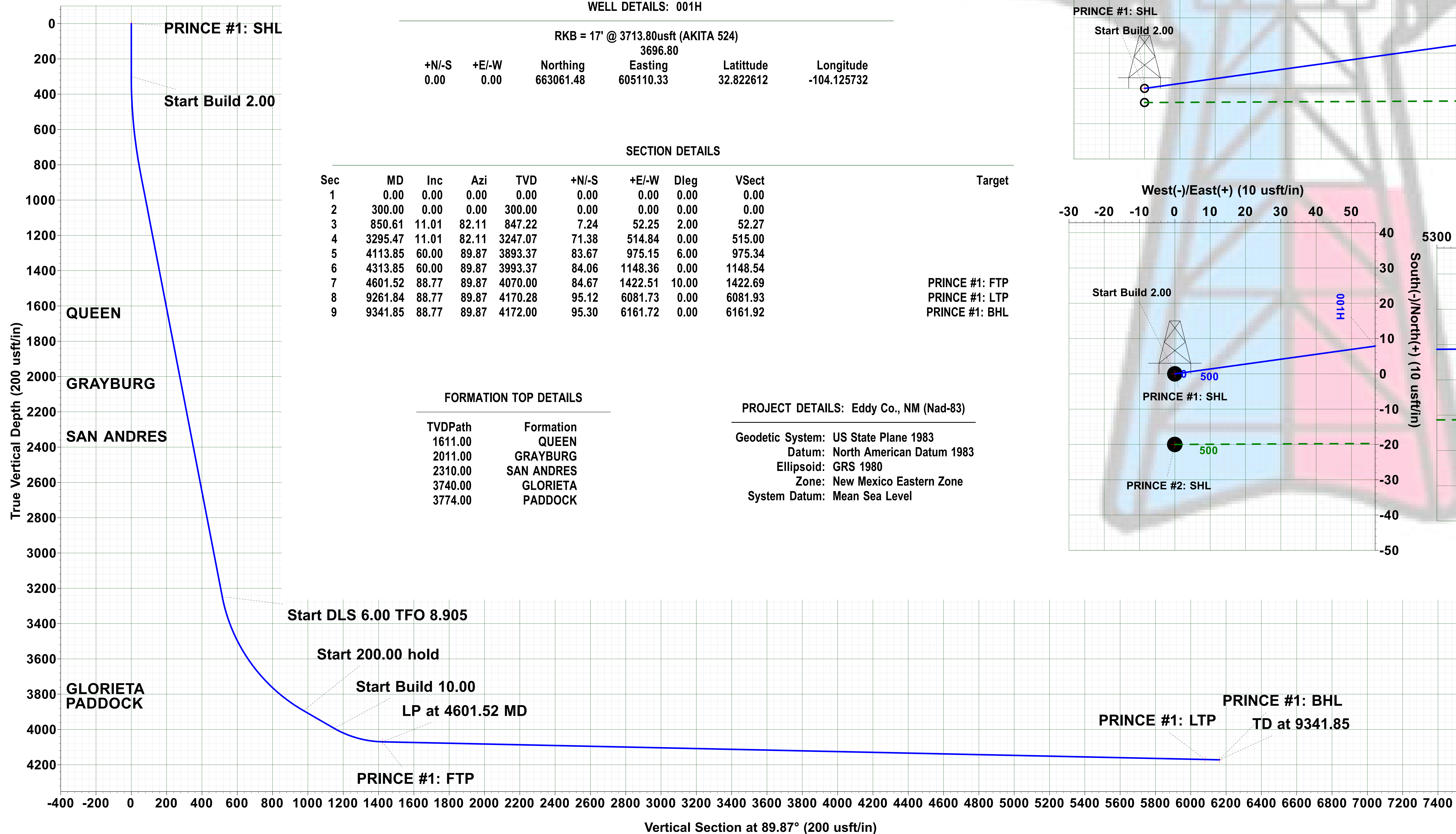
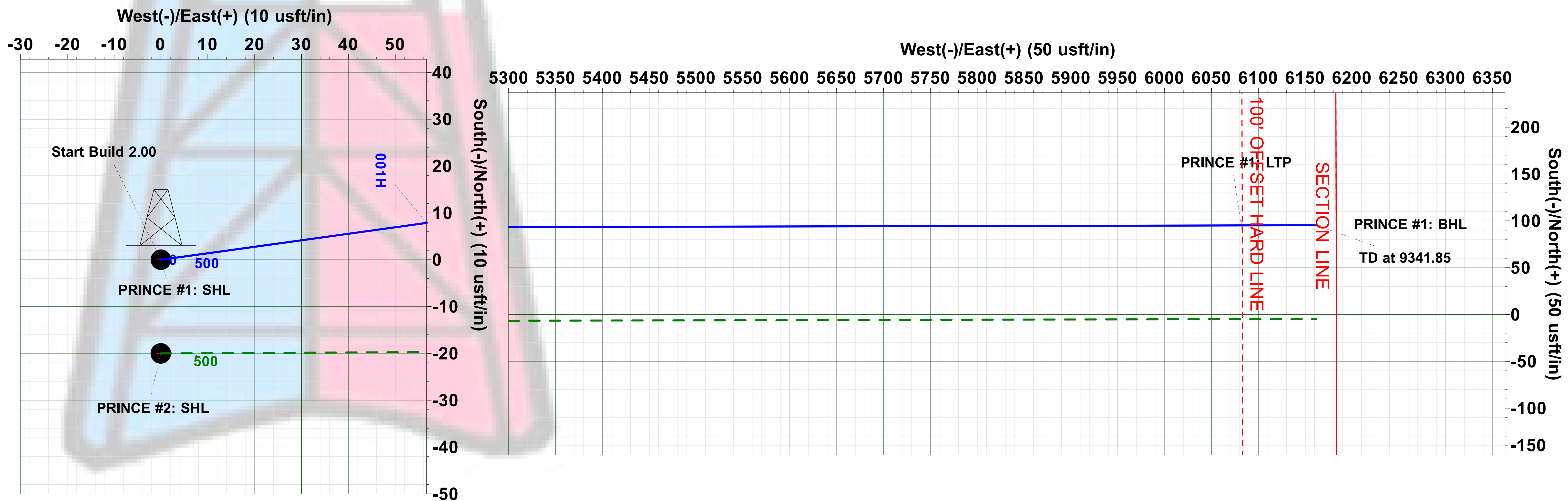
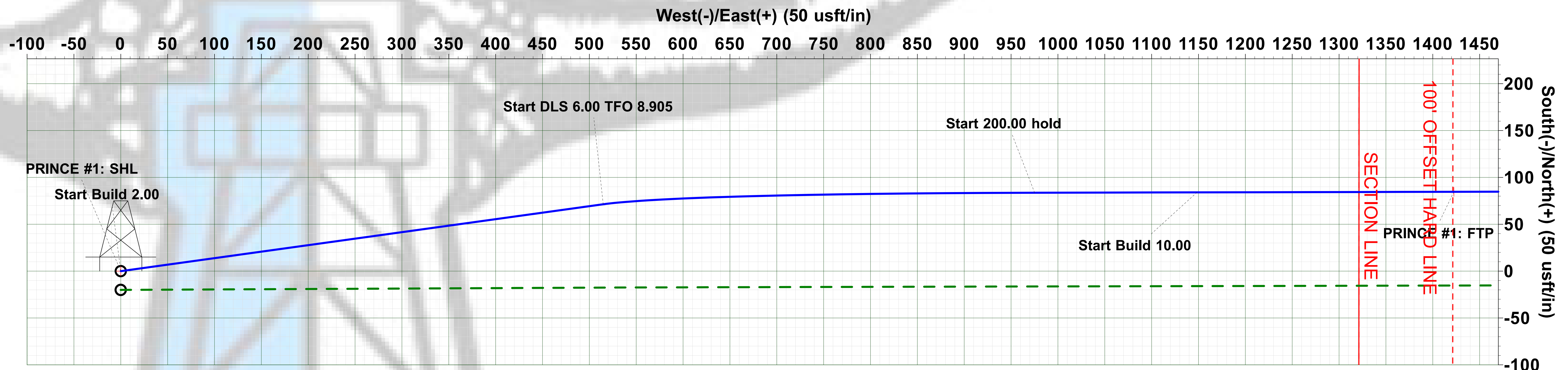
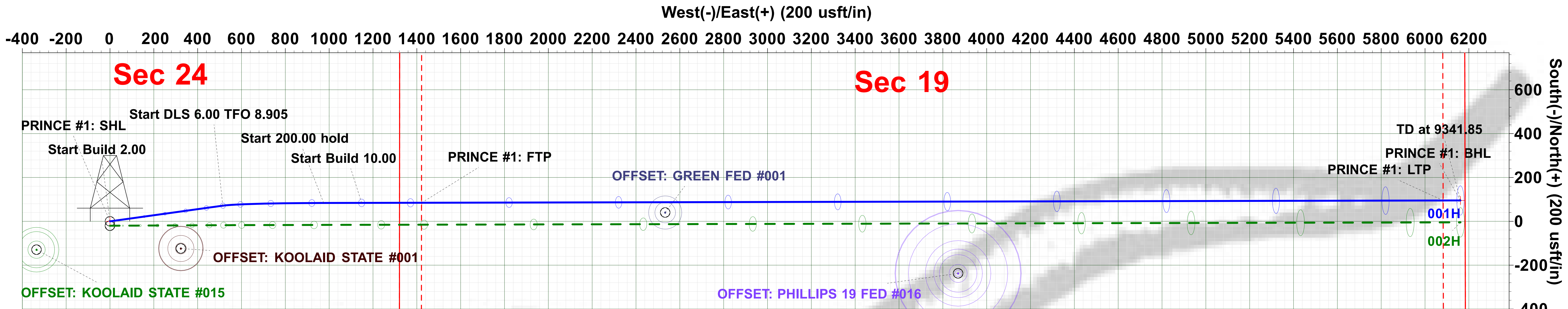
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	
3	850.61	11.01	82.11	847.22	7.24	52.25	2.00	52.27	
4	3295.47	11.01	82.11	3247.07	71.38	514.84	0.00	515.00	
5	4113.85	60.00	89.87	3893.37	83.67	975.15	6.00	975.34	
6	4313.85	60.00	89.87	3993.37	84.06	1148.36	0.00	1148.54	
7	4601.52	88.77	89.87	4070.00	84.67	1422.51	10.00	1422.69	PRINCE #1: FTP
8	9261.84	88.77	89.87	4170.28	95.12	6081.73	0.00	6081.93	PRINCE #1: LTP
9	9341.85	88.77	89.87	4172.00	95.30	6161.72	0.00	6161.92	PRINCE #1: BHL

FORMATION TOP DETAILS

TVDPath	Formation
1611.00	QUEEN
2011.00	GRAYBURG
2310.00	SAN ANDRES
3740.00	GLORIETA
3774.00	PADDOCK

PROJECT DETAILS: Eddy Co., NM (Nad-83)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.11°
Magnetic North: 6.60°

Magnetic Field
Strength: 47665.7nT
Dip Angle: 60.32°
Date: 8/17/2022
Model: IGRF2020

CORRECTION REFERENCE DATA:

To convert a Magnetic Direction to a Grid Direction, Add 6.601°
To convert a True Direction to a Grid Direction, Subtract 0.113°
Magnetic Declination: 6.713°
Magnetic Dip Angle: 60.322°
Magnetic Field Strength: 47665.72431975nT

Disclaimer:

All Plan Details, boundary lines and offset well location/ survey data is provided by customer and subject to customer approval.

Plan: PLAN #1 (001H/Wellbore #1) AKITA 524

Created By: Matthew May Date: 12:24, August 23 2022

District I
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Phone: (575) 393-6161 Fax: (575) 393-0720

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Form C-102
Revised August 1, 2011
Submit one copy to appropriate
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name PRINCE FEDERAL 19B		⁶ Well Number 001H
⁷ OGRID No. 372210	⁸ Operator Name LONGFELLOW ENERGY, LP		⁹ Elevation 3696.8

¹⁰ Surface Location

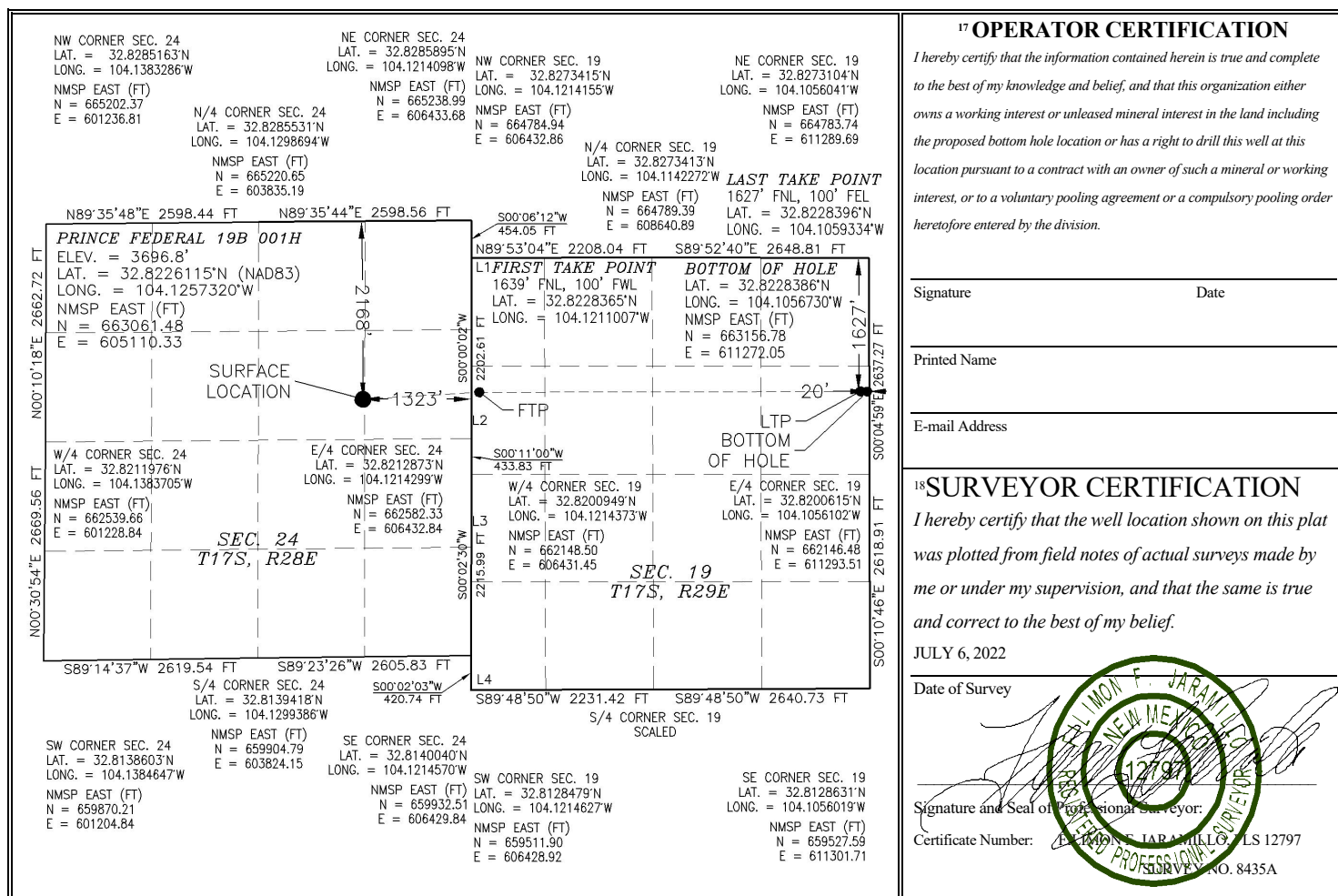
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	24	17 S	28 E		2168	NORTH	1323	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	19	17 S	29 E		1627	NORTH	20	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 001H
Company:	Longfellow Energy	TVD Reference:	RKB = 17' @ 3713.80usft (AKITA 524)
Project:	Eddy Co., NM (Nad-83)	MD Reference:	RKB = 17' @ 3713.80usft (AKITA 524)
Site:	PRINCE FEDERAL 19B	North Reference:	Grid
Well:	001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #1		

Project	Eddy Co., NM (Nad-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	PRINCE FEDERAL 19B		
Site Position:		Northing:	663,061.48 usft
From:	Map	Easting:	605,110.33 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.822612
		Longitude:	-104.125732
		Grid Convergence:	0.113 °

Well	001H		
Well Position	+N/-S	0.00 usft	Northing: 663,061.48 usft
	+E/-W	0.00 usft	Easting: 605,110.33 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32.822612
			Longitude: -104.125732
			Ground Level: 3,696.80 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/17/2022	6.713	60.322	47,665.72431975

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	89.87

Plan Survey Tool Program	Date	8/23/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	9,341.85	PLAN #1 (Wellbore #1)	MWD+IFR1+SAG+FDIR
				OWSG MWD + IFR1 + Sag

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	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	0.000	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.000	
850.61	11.01	82.11	847.22	7.24	52.25	2.00	2.00	0.00	82.107	
3,295.47	11.01	82.11	3,247.07	71.38	514.84	0.00	0.00	0.00	0.000	
4,113.85	60.00	89.87	3,893.37	83.67	975.15	6.00	5.99	0.95	8.905	
4,313.85	60.00	89.87	3,993.37	84.06	1,148.36	0.00	0.00	0.00	0.000	
4,601.52	88.77	89.87	4,070.00	84.67	1,422.51	10.00	10.00	0.00	0.000	PRINCE #1: FTP
9,261.84	88.77	89.87	4,170.28	95.12	6,081.73	0.00	0.00	0.00	0.000	PRINCE #1: LTP
9,341.85	88.77	89.87	4,172.00	95.30	6,161.72	0.00	0.00	0.00	0.000	PRINCE #1: BHL



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 001H
Company:	Longfellow Energy	TVD Reference:	RKB = 17' @ 3713.80usft (AKITA 524)
Project:	Eddy Co., NM (Nad-83)	MD Reference:	RKB = 17' @ 3713.80usft (AKITA 524)
Site:	PRINCE FEDERAL 19B	North Reference:	Grid
Well:	001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	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	2.00	82.11	399.98	0.24	1.73	1.73	2.00	2.00	0.00
500.00	4.00	82.11	499.84	0.96	6.91	6.91	2.00	2.00	0.00
600.00	6.00	82.11	599.45	2.16	15.54	15.55	2.00	2.00	0.00
700.00	8.00	82.11	698.70	3.83	27.62	27.62	2.00	2.00	0.00
800.00	10.00	82.11	797.47	5.98	43.11	43.12	2.00	2.00	0.00
850.61	11.01	82.11	847.22	7.24	52.25	52.27	2.00	2.00	0.00
900.00	11.01	82.11	895.71	8.54	61.60	61.62	0.00	0.00	0.00
1,000.00	11.01	82.11	993.87	11.16	80.52	80.54	0.00	0.00	0.00
1,100.00	11.01	82.11	1,092.02	13.79	99.44	99.47	0.00	0.00	0.00
1,200.00	11.01	82.11	1,190.18	16.41	118.36	118.40	0.00	0.00	0.00
1,300.00	11.01	82.11	1,288.34	19.03	137.28	137.32	0.00	0.00	0.00
1,400.00	11.01	82.11	1,386.50	21.66	156.20	156.25	0.00	0.00	0.00
1,500.00	11.01	82.11	1,484.66	24.28	175.12	175.18	0.00	0.00	0.00
1,600.00	11.01	82.11	1,582.82	26.90	194.04	194.10	0.00	0.00	0.00
1,628.71	11.01	82.11	1,611.00	27.66	199.47	199.54	0.00	0.00	0.00
QUEEN									
1,700.00	11.01	82.11	1,680.98	29.53	212.96	213.03	0.00	0.00	0.00
1,800.00	11.01	82.11	1,779.13	32.15	231.88	231.96	0.00	0.00	0.00
1,900.00	11.01	82.11	1,877.29	34.77	250.80	250.88	0.00	0.00	0.00
2,000.00	11.01	82.11	1,975.45	37.39	269.72	269.81	0.00	0.00	0.00
2,036.21	11.01	82.11	2,011.00	38.34	276.58	276.66	0.00	0.00	0.00
GRAYBURG									
2,100.00	11.01	82.11	2,073.61	40.02	288.64	288.73	0.00	0.00	0.00
2,200.00	11.01	82.11	2,171.77	42.64	307.57	307.66	0.00	0.00	0.00
2,300.00	11.01	82.11	2,269.93	45.26	326.49	326.59	0.00	0.00	0.00
2,340.82	11.01	82.11	2,310.00	46.34	334.21	334.31	0.00	0.00	0.00
SAN ANDRES									
2,400.00	11.01	82.11	2,368.09	47.89	345.41	345.51	0.00	0.00	0.00
2,500.00	11.01	82.11	2,466.25	50.51	364.33	364.44	0.00	0.00	0.00
2,600.00	11.01	82.11	2,564.40	53.13	383.25	383.37	0.00	0.00	0.00
2,700.00	11.01	82.11	2,662.56	55.76	402.17	402.29	0.00	0.00	0.00
2,800.00	11.01	82.11	2,760.72	58.38	421.09	421.22	0.00	0.00	0.00
2,900.00	11.01	82.11	2,858.88	61.00	440.01	440.15	0.00	0.00	0.00
3,000.00	11.01	82.11	2,957.04	63.63	458.93	459.07	0.00	0.00	0.00
3,100.00	11.01	82.11	3,055.20	66.25	477.85	478.00	0.00	0.00	0.00
3,200.00	11.01	82.11	3,153.36	68.87	496.77	496.93	0.00	0.00	0.00
3,295.47	11.01	82.11	3,247.07	71.38	514.84	515.00	0.00	0.00	0.00
3,300.00	11.28	82.32	3,251.51	71.50	515.70	515.87	6.00	5.93	4.75
3,350.00	14.25	84.16	3,300.27	72.78	526.68	526.84	6.00	5.95	3.68
3,400.00	17.24	85.38	3,348.39	74.00	540.19	540.35	6.00	5.96	2.43
3,450.00	20.22	86.24	3,395.74	75.16	556.20	556.37	6.00	5.97	1.73
3,500.00	23.21	86.89	3,442.18	76.26	574.66	574.83	6.00	5.98	1.30
3,550.00	26.21	87.40	3,487.60	77.30	595.54	595.71	6.00	5.98	1.02
3,600.00	29.20	87.82	3,531.86	78.26	618.76	618.93	6.00	5.99	0.82
3,650.00	32.19	88.16	3,574.85	79.15	644.26	644.44	6.00	5.99	0.68
3,700.00	35.19	88.45	3,616.45	79.97	671.98	672.16	6.00	5.99	0.58
3,750.00	38.19	88.69	3,656.54	80.72	701.84	702.02	6.00	5.99	0.50
3,800.00	41.18	88.91	3,695.01	81.38	733.76	733.94	6.00	5.99	0.44
3,850.00	44.18	89.11	3,731.77	81.97	767.65	767.83	6.00	5.99	0.39



Planning Report



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Design:	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,861.55	44.87	89.15	3,740.00	82.09	775.75	775.93	6.00	5.99	0.36
GLORIETA									
3,900.00	47.18	89.28	3,766.70	82.47	803.41	803.60	6.00	5.99	0.34
3,910.81	47.83	89.31	3,774.00	82.57	811.38	811.57	6.00	6.00	0.33
PADDOCK									
3,950.00	50.18	89.44	3,799.71	82.89	840.96	841.14	6.00	6.00	0.31
4,000.00	53.17	89.58	3,830.71	83.22	880.17	880.36	6.00	6.00	0.29
4,050.00	56.17	89.71	3,859.62	83.47	920.96	921.15	6.00	6.00	0.27
4,100.00	59.17	89.84	3,886.36	83.64	963.21	963.39	6.00	6.00	0.25
4,113.85	60.00	89.87	3,893.37	83.67	975.15	975.34	6.00	6.00	0.24
4,200.00	60.00	89.87	3,936.44	83.83	1,049.76	1,049.95	0.00	0.00	0.00
4,300.00	60.00	89.87	3,986.44	84.03	1,136.36	1,136.55	0.00	0.00	0.00
4,313.85	60.00	89.87	3,993.37	84.06	1,148.36	1,148.54	0.00	0.00	0.00
4,350.00	63.61	89.87	4,010.45	84.13	1,180.21	1,180.40	10.00	10.00	0.00
4,400.00	68.61	89.87	4,030.68	84.23	1,225.91	1,226.10	10.00	10.00	0.00
4,450.00	73.61	89.87	4,046.86	84.34	1,273.21	1,273.39	10.00	10.00	0.00
4,500.00	78.61	89.87	4,058.86	84.44	1,321.73	1,321.92	10.00	10.00	0.00
4,550.00	83.61	89.87	4,066.58	84.56	1,371.11	1,371.30	10.00	10.00	0.00
4,601.52	88.77	89.87	4,070.00	84.67	1,422.51	1,422.69	10.00	10.00	0.00
4,700.00	88.77	89.87	4,072.12	84.89	1,520.96	1,521.15	0.00	0.00	0.00
4,800.00	88.77	89.87	4,074.27	85.12	1,620.94	1,621.13	0.00	0.00	0.00
4,900.00	88.77	89.87	4,076.42	85.34	1,720.91	1,721.10	0.00	0.00	0.00
5,000.00	88.77	89.87	4,078.57	85.56	1,820.89	1,821.08	0.00	0.00	0.00
5,100.00	88.77	89.87	4,080.73	85.79	1,920.87	1,921.06	0.00	0.00	0.00
5,200.00	88.77	89.87	4,082.88	86.01	2,020.84	2,021.03	0.00	0.00	0.00
5,300.00	88.77	89.87	4,085.03	86.24	2,120.82	2,121.01	0.00	0.00	0.00
5,400.00	88.77	89.87	4,087.18	86.46	2,220.80	2,220.99	0.00	0.00	0.00
5,500.00	88.77	89.87	4,089.33	86.69	2,320.77	2,320.96	0.00	0.00	0.00
5,600.00	88.77	89.87	4,091.48	86.91	2,420.75	2,420.94	0.00	0.00	0.00
5,700.00	88.77	89.87	4,093.64	87.13	2,520.73	2,520.92	0.00	0.00	0.00
5,800.00	88.77	89.87	4,095.79	87.36	2,620.70	2,620.89	0.00	0.00	0.00
5,900.00	88.77	89.87	4,097.94	87.58	2,720.68	2,720.87	0.00	0.00	0.00
6,000.00	88.77	89.87	4,100.09	87.81	2,820.66	2,820.85	0.00	0.00	0.00
6,100.00	88.77	89.87	4,102.24	88.03	2,920.63	2,920.82	0.00	0.00	0.00
6,200.00	88.77	89.87	4,104.40	88.26	3,020.61	3,020.80	0.00	0.00	0.00
6,300.00	88.77	89.87	4,106.55	88.48	3,120.59	3,120.78	0.00	0.00	0.00
6,400.00	88.77	89.87	4,108.70	88.70	3,220.56	3,220.76	0.00	0.00	0.00
6,500.00	88.77	89.87	4,110.85	88.93	3,320.54	3,320.73	0.00	0.00	0.00
6,600.00	88.77	89.87	4,113.00	89.15	3,420.52	3,420.71	0.00	0.00	0.00
6,700.00	88.77	89.87	4,115.15	89.38	3,520.49	3,520.69	0.00	0.00	0.00
6,800.00	88.77	89.87	4,117.31	89.60	3,620.47	3,620.66	0.00	0.00	0.00
6,900.00	88.77	89.87	4,119.46	89.82	3,720.45	3,720.64	0.00	0.00	0.00
7,000.00	88.77	89.87	4,121.61	90.05	3,820.42	3,820.62	0.00	0.00	0.00
7,100.00	88.77	89.87	4,123.76	90.27	3,920.40	3,920.59	0.00	0.00	0.00
7,200.00	88.77	89.87	4,125.91	90.50	4,020.38	4,020.57	0.00	0.00	0.00
7,300.00	88.77	89.87	4,128.06	90.72	4,120.35	4,120.55	0.00	0.00	0.00
7,400.00	88.77	89.87	4,130.22	90.95	4,220.33	4,220.52	0.00	0.00	0.00
7,500.00	88.77	89.87	4,132.37	91.17	4,320.30	4,320.50	0.00	0.00	0.00
7,600.00	88.77	89.87	4,134.52	91.39	4,420.28	4,420.48	0.00	0.00	0.00
7,700.00	88.77	89.87	4,136.67	91.62	4,520.26	4,520.45	0.00	0.00	0.00
7,800.00	88.77	89.87	4,138.82	91.84	4,620.23	4,620.43	0.00	0.00	0.00
7,900.00	88.77	89.87	4,140.98	92.07	4,720.21	4,720.41	0.00	0.00	0.00
8,000.00	88.77	89.87	4,143.13	92.29	4,820.19	4,820.38	0.00	0.00	0.00
8,100.00	88.77	89.87	4,145.28	92.52	4,920.16	4,920.36	0.00	0.00	0.00



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 001H
Company:	Longfellow Energy	TVD Reference:	RKB = 17' @ 3713.80usft (AKITA 524)
Project:	Eddy Co., NM (Nad-83)	MD Reference:	RKB = 17' @ 3713.80usft (AKITA 524)
Site:	PRINCE FEDERAL 19B	North Reference:	Grid
Well:	001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,200.00	88.77	89.87	4,147.43	92.74	5,020.14	5,020.34	0.00	0.00	0.00	
8,300.00	88.77	89.87	4,149.58	92.96	5,120.12	5,120.32	0.00	0.00	0.00	
8,400.00	88.77	89.87	4,151.73	93.19	5,220.09	5,220.29	0.00	0.00	0.00	
8,500.00	88.77	89.87	4,153.89	93.41	5,320.07	5,320.27	0.00	0.00	0.00	
8,600.00	88.77	89.87	4,156.04	93.64	5,420.05	5,420.25	0.00	0.00	0.00	
8,700.00	88.77	89.87	4,158.19	93.86	5,520.02	5,520.22	0.00	0.00	0.00	
8,800.00	88.77	89.87	4,160.34	94.09	5,620.00	5,620.20	0.00	0.00	0.00	
8,900.00	88.77	89.87	4,162.49	94.31	5,719.98	5,720.18	0.00	0.00	0.00	
9,000.00	88.77	89.87	4,164.64	94.53	5,819.95	5,820.15	0.00	0.00	0.00	
9,100.00	88.77	89.87	4,166.80	94.76	5,919.93	5,920.13	0.00	0.00	0.00	
9,200.00	88.77	89.87	4,168.95	94.98	6,019.91	6,020.11	0.00	0.00	0.00	
9,261.84	88.77	89.87	4,170.28	95.12	6,081.73	6,081.93	0.00	0.00	0.00	
9,300.00	88.77	89.87	4,171.10	95.21	6,119.88	6,120.08	0.00	0.00	0.00	
9,341.85	88.77	89.87	4,172.00	95.30	6,161.72	6,161.92	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PRINCE #1: SHL - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	663,061.48	605,110.33	32.822612	-104.125732	
PRINCE #1: FTP - plan hits target center - Point	0.00	0.00	4,070.00	84.67	1,422.51	663,146.16	606,532.84	32.822837	-104.121101	
PRINCE #1: LTP - plan misses target center by 0.37usft at 9261.84usft MD (4170.28 TVD, 95.12 N, 6081.73 E) - Point	0.00	0.00	4,170.28	95.49	6,081.73	663,156.97	611,192.06	32.822840	-104.105934	
PRINCE #1: BHL - plan hits target center - Point	0.00	0.00	4,172.00	95.30	6,161.72	663,156.78	611,272.05	32.822839	-104.105673	

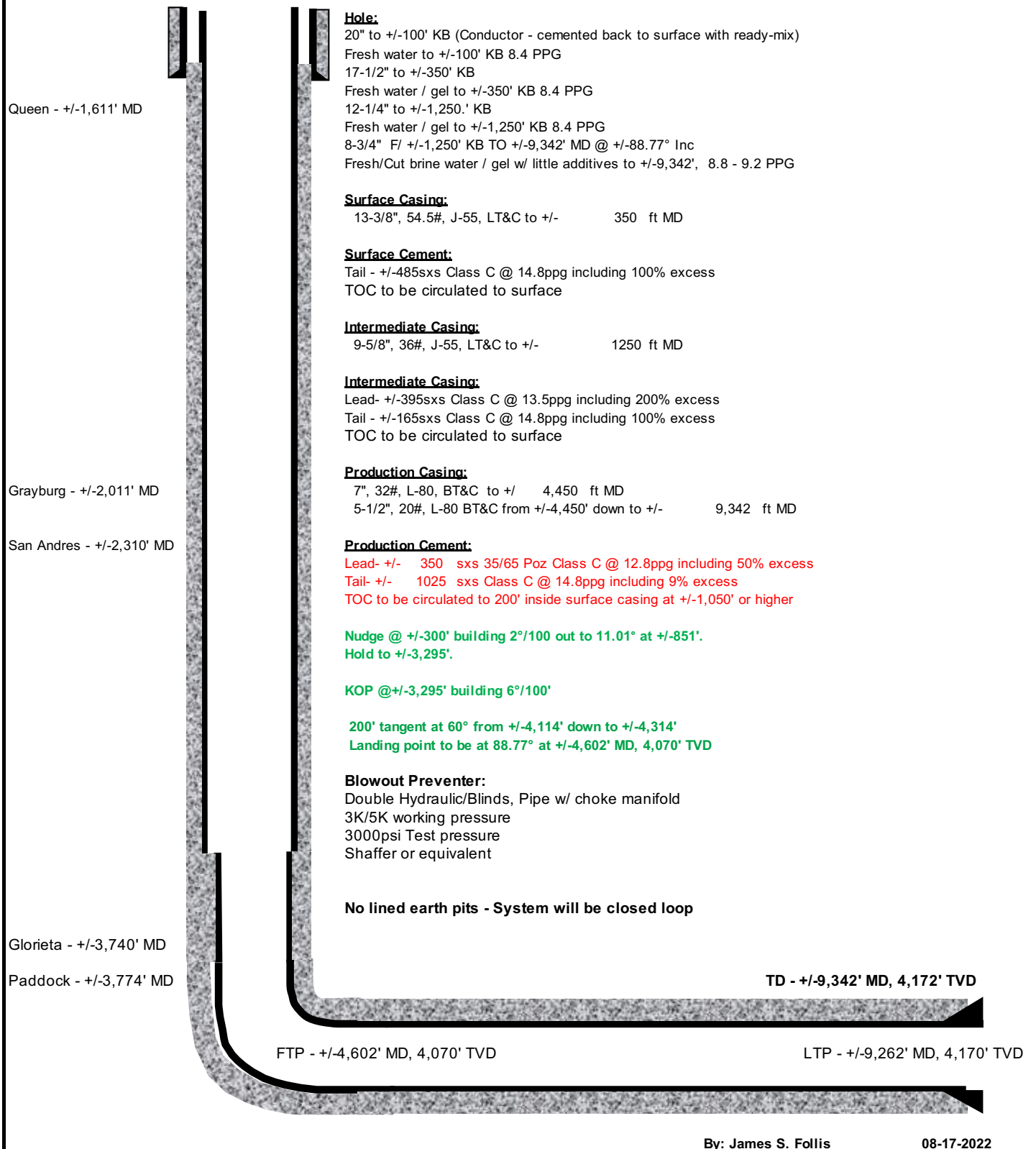
Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,628.71	1,611.00	QUEEN		0.000		
2,036.21	2,011.00	GRAYBURG		0.000		
2,340.82	2,310.00	SAN ANDRES		0.000		
3,861.55	3,740.00	GLORIETA		0.000		
3,910.81	3,774.00	PADDOCK		0.000		



LEASE: Prince Federal 19B
FIELD: Empire; Glorieta-Yeso
STATE: New Mexico
SL: Sec-24-T17S-R29E, 2168' FNL & 1323' FEL

WELL #: 001H
COUNTY: Eddy
API#:
KB: 3,713.8ft (17ft)

PROPOSED HORIZONTAL WELLBORE



By: James S. Follis

08-17-2022

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 143659

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 143659
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	9/19/2022