

RECEIVED

FORM APPROVED

DEPARTMENT OF THE INTERIOR FEB 1 4 2019 OMB NO. 1004-BUREAU OF LAND MANAGEMENT 0137 Expires: January 31, 2018 WELL COMPLETION OR RECOMPLETION REPORT AND LOG 5. Lease Serial No. Farmington Field Office N00C14205594 Well 6. If Indian, Allottee or Tribe Name 1a. Type of Well Oil Well Dry Other b. Type of Completion New Well Work Over Deepen Plug Back Diff. Zones Hydraulic Fracturing 7. Unit or CA Agreement Name and No. Other: NMNM135217A Name of Operator 8. Lease Name and Well No. 2 N ESCAVADA UNIT #331H **Enduring Resources IV LLC** API Well No. 3a. Phone No. (Include area code) 0 Address 200 Energy Court Farmington NM 87401 505-636-9743 30-043-21298 10. Field and Pool or Exploratory 4. Location of Well (Report location clearly and in accordance with Federal requirements) \* ESCAVADA N, MANCOS At surface 11. Sec., T., R., M., on Block and Survey or Area SHL: 1594' FSL & 192' FWL, Sec 10, T22N, R7W 10 22N 7W BHL: 2319' FNL & 1662' FEL, Sec 15 T22N, R7W 12. County or Parish 13. State Sandoval NM At top prod. interval reported below At total depth 14. Date Spudded 15. Date T.D. Reached 16. Date Completed 2/6/19 17. Elevations (DF, RKB, RT, GL)\* 9/21/17 11/14/17 D&A Ready to Prod. 6860' MD 20. Depth Bridge Plug Set: 18. Total Depth: 11025' MD 19. Plug Back T.D.: 10973' MD TVD 4915' TVD 4916' TVD No 21. Type Electric & Other Mechanical Logs Run (Submit copy of each) 22. Was well cored? Yes (Submit analysis) No Yes (Submit report) Was DST run? Directional Survey? No Yes (Submit copy) Form 3160-4 UNITED STATES (June 2015) 23. Casing and Liner Record (Report all strings set in well) Stage Cementer Depth No. of Sks. & Type of Cement Slurry Vol. (BBL) Hole Size Size/Grade Wt. (#ft.) Top (MD) Bottom (MD) Cement Top\* Amount Pulled 101 162 12-1/4" 9-5/8", J-55 36 0 339' MD surface 945 1527 23 h surface 8-3/4' 7", J-55 5608' MD 11020' MD 530 719 TOL 5454' 6-1/8' 4-1/2", P-110 11.6 5454 24. Tubing Record Size Dept Set (MD) Packer Dept (MD) Size Depth Set (MD) Packer Depth (MD) Size Depth Set (MD) Packer Depth (MD) 2-7/8",6.5#,L- 3902' 80 EUE 8rd 25. Producing Intervals 26. Perforation Record Formation Тор Bottom Perforated Interval Size No. Holes Perf. Status Mancos 30th 5725' 10950' 5725'-5866' 35 & .42 Mancos 29th 5905'-6046' 35 & .42 Mancos 28th 6085'-6225' 35 & .42 Mancos 27th 6265'-6403' 35 & .42 Mancos 26th 6445'-6588' OFFICE 35 & .42 Mancos 25th 6621'-6766' 35 & 42 Mancos 24th 6805'-6946' 35 & .42 Mancos 23rd 6985'-7126' 35 & .42 Mancos 22<sup>nd</sup> 7165'-7305' 35 & .42 Mancos 21<sup>st</sup> 7345'-7485' 35 & .42 Mancos 20th 7525'-7666' 35 & .42 Mancos 19th 7705'-7846' 35 & .42 NMOCD Mancos 18th 7885'-8025' 35 & .42 Mancos 17th 8065'-8205' 35 & .42 Mancos 16th 8245'-8385' 35 & .42 Mancos 15th 8423'-8566' 35 & .42 Mancos 14th 8610'-8746' 35 & .42 Mancos 13th 8785'-8926' 35 & .42 Mancos 12th 8965'-9106' 35 & .42

Mances 10h         9145-9285'         35 & 4.2           Mances 9 <sup>th</sup> 9325-9466'         35 & 4.2           Mances 9 <sup>th</sup> 9355-9666'         35 & 4.2           Mances 9 <sup>th</sup> 9865-9826'         35 & 4.2           Mances 9 <sup>th</sup> 9865-9826'         35 & 4.2           Mances 9 <sup>th</sup> 9865-9826'         35 & 4.2           Mances 9 <sup>th</sup> 10045-10185'         35 & 4.2           Mances 9 <sup>th</sup> 10225-10185'         35 & 4.2           Mances 9 <sup>th</sup> 10225'-10185'         35 & 4.2           Mances 9 <sup>th</sup> 10258'-1075'         35 & 4.2           Mances 1 <sup>th</sup> 10582'-1075'         35 & 4.2           Mances 1 <sup>th</sup> 10465'-10850'         35 & 5 & 4.2           Mances 1 <sup>th</sup> <td< th=""><th>•</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	•									
Mancos Ibih         9325-9466'         35 & 42           Mancos B <sup>A</sup> 9505-9646'         35 & 42           Mancos B <sup>A</sup> 9685-9626'         35 & 42           Mancos 7 <sup>a</sup> 1         9865-10006'         35 & 42           Mancos 8 <sup>a</sup> 10045-10185'         35 & 42           Mancos 9 <sup>a</sup> 10225-10366'         35 & 42           Mancos 4 <sup>a</sup> 10405-10185'         35 & 42           Mancos 4 <sup>a</sup> 10405-10185'         35 & 42           Mancos 2 <sup>ad</sup> 10125-10366'         35 & 42           Mancos 2 <sup>ad</sup> 10165-10005'         35 & 42           Mancos 2 <sup>ad</sup> 10765-10905'         35 & 42           77.4 risk         Factory Targer Meental and Bicelours on PinEPocots ong           Deptiterval         Xee 2000, 20/40 & 30/50 PSA Sand           6265-6403'         MC 28 <sup>ab</sup> tage with 322500, 20/40 & 30/50 PSA Sand           6265-6403'         MC 22 <sup>ab</sup> tage with 3226400, 20/40 & 30/50 PSA Sand           6627-656'         MC 28 <sup>ab</sup> tage with 3226400, 20/40 & 30/50 PSA Sand           6627-656'         MC 28 <sup>ab</sup> tage with 3226400, 20/40 & 30/50 PSA Sand           6627-656'         MC 28 <sup>ab</sup> tage with 3226400, 20/40 & 30/50 PSA Sand           7125'         MC 28 <sup>ab</sup> tage with 322500, 20/40 & 30/50 PSA Sand	Mancos 11th		k	9145'-9285'	.3	5 & .42		· · · · · · · · · · · · · · · · · · ·		
Mances 9 <sup>th</sup> 9505'-9546'         35 & 42           Mances 8 <sup>th</sup> 9685'-9826'         35 & 42           Mances 6 <sup>th</sup> 10045'-10185'         35 & 42           Mances 6 <sup>th</sup> 10045'-10185'         35 & 42           Mances 6 <sup>th</sup> 10045'-10185'         35 & 42           Mances 4 <sup>th</sup> 10225'-10365'         35 & 42           Mances 4 <sup>th</sup> 101225'-10365'         35 & 42           Mances 3 <sup>th</sup> 10525'-10305'         35 & 42           Mances 1 <sup>th</sup> 10765'-10905'         35 & 42           Mances 1 <sup>th</sup> 10945'-10950'         35 & 42           Z. Acid, Fancture, Treatment, Cernent Squeez, Post hydrallic fancturing chemical disclosures for Harboaus mp.         Depth Interval           Dyth Interval         Access, 20/40 & 30/50 PSA Sand         Cernetal Diadours uplead on FmeTexia.org           5725'5866'         MC 28 <sup>th</sup> stage with 322500, 20/40 & 30/50 PSA Sand         Cernetal Diadours uplead on FmeTexia.org           5725'5866'         MC 28 <sup>th</sup> stage with 322500, 20/40 & 30/50 PSA Sand         Cernetal Diadours uplead on FmeTexia.org           5725'5866'         MC 28 <sup>th</sup> stage with 322500, 20/40 & 30/50 PSA Sand         Cernetal Diadours uplead on FmeTexia.org           5725'566'         MC 28 <sup>th</sup> stage with 322500, 20/40 & 30/50 PSA Sand         Cernetal Diadours uplead	Mancos 10th			9325'-9466'		1				
Mances 8 <sup>th</sup> 6p68:982.0'         35 & 4.2           Mances 6 <sup>th</sup> 10045'-10385'         35 & 4.2           Mances 5 <sup>th</sup> 10025'-10386'         35 & 4.2           Mances 5 <sup>th</sup> 10045'-10185'         35 & 4.2           Mances 5 <sup>th</sup> 10045'-10185'         35 & 4.2           Mances 2 <sup>th</sup> 10045'-10185'         35 & 4.2           Mances 2 <sup>th</sup> 101652'-10305'         35 & 4.2           Mances 2 <sup>th</sup> 101652'-10305'         35 & 4.2           Mances 4 <sup>th</sup> 101652'-10305'         35 & 4.2           Z7. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fincturing chemical disclosures on FracFocus.org         Depth interval           Depth interval         101645'-10305'         35 & 4.2           Z7. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fincturing chemical disclosures on FracFocus.org         Depth interval           S005'-G046'         MC 28 <sup>th</sup> stage with 3285007, 20/40 & 30/50' FAS Sand         Ge55'-5403'           G625'-5403'         MC 28 <sup>th</sup> stage with 327207, 20/40 & 30/50' FAS Sand         Ge55'-5403'           G625'-6404'         MC 28 <sup>th</sup> stage with 3272067, 20/40 & 30/50' FAS Sand         Ge55'-5403'           G625'-6404'         MC 28 <sup>th</sup> stage with 3272067, 20/40 & 30/50' FAS Sand         Ge55'-5403'           G625'-6404	Mancos 9 <sup>th</sup>			9505'-9646'						
Mances 7 <sup>th</sup> 9865'10006'         35 & 42           Mances 6 <sup>th</sup> 10045'10185'         35 & 42           Mances 6 <sup>th</sup> 10225'10366'         35 & 42           Mances 3 <sup>th</sup> 10225'10366'         35 & 42           Mances 3 <sup>th</sup> 10582'10725'         35 & 42           Mances 3 <sup>th</sup> 10582'10725'         35 & 42           Mances 1 <sup>th</sup> 10765'10905'         35 & 42           Z7. Acid, Fracture, Treatment, Cenent Squeeze, Post hydraulic facturing chemical disclosures on FracFocus org         20           S005'6046'         MC 20 <sup>th</sup> stage with 323507, 20/40 & 30/50 FSA Sand         50           S005'6046'         MC 20 <sup>th</sup> stage with 323507, 20/40 & 30/50 FSA Sand         50           S005'6046'         MC 27 <sup>th</sup> stage with 323507, 20/40 & 30/50 FSA Sand         50           S005'6046'         MC 27 <sup>th</sup> stage with 323507, 20/40 & 30/50 FSA Sand         50           S005'6046'         MC 27 <sup>th</sup> stage with 3285007, 20/40 & 30/50 FSA Sand         56           S005'6046'         MC 27 <sup>th</sup> stage with 3285007, 20/40 & 30/50 FSA Sand         56           S005'6046'         MC 27 <sup>th</sup> stage with 3285007, 20/40 & 30/50 FSA Sand         56           S005'6046'         MC 28 <sup>th</sup> stage with 3275017, 20/40 & 30/50 FSA Sand         57           S125'7126'         MC 23 <sup>th</sup>	Mancos 8 <sup>th</sup>			9685'-9826'						
Mances 6 <sup>th</sup> 10045'-10185'         35 & 4.2           Mances 6 <sup>th</sup> 10225'-10366'         33 & 4.2           Mances 4 <sup>th</sup> 100405'-10547'         35 & 4.2           Mances 2 <sup>th</sup> 10755'-10305'         35 & 4.2           Mances 2 <sup>th</sup> 10765'-10305'         35 & 4.42           Mances 1 <sup>th</sup> 10765'-10305'         35 & 4.42           Mances 1 <sup>th</sup> 10765'-10305'         35 & 4.42           T. Acid, Fracture, Treatment, Cernent Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org         Deplinerval           Deplinerval         Anonu, Type of Marcial and Due of Chemical Diaclosure upload on FracFocus.org           S035'-5046'         MC 29 <sup>th</sup> stage with 322350H, 20/40 & 30/50 P5A Sand           6025'-6225'         MC 28 <sup>th</sup> stage with 32240D, 20/40 & 30/50 P5A Sand           6625'-626'         MC 28 <sup>th</sup> stage with 32240H, 20/40 & 30/50 P5A Sand           6625'-626'         MC 28 <sup>th</sup> stage with 32250H, 20/40 & 30/50 P5A Sand           6625'-626'         MC 28 <sup>th</sup> stage with 32250H, 20/40 & 30/50 P5A Sand           6625'-626'         MC 28 <sup>th</sup> stage with 32250H, 20/40 & 30/50 P5A Sand           7245'-7485'         MC 22 <sup>th</sup> stage with 32250H, 20/40 & 30/50 P5A Sand           7245'-7485'         MC 21 <sup>th</sup> stage with 32250H, 20/40 & 30/50 P5A Sand           7245'-766'         <	Mancos 7 <sup>th</sup>		k	9865'-10006'						· · · - ·
Mances 5 <sup>th</sup> 10225':10366'         3.5 & .4.2           Mances 4 <sup>th</sup> 10405':10547'         3.5 & .4.2           Mances 3 <sup>th</sup> 10582':10725'         3.5 & .4.2           Mances 1 <sup>th</sup> 10765':10305'         3.5 & .4.2           Z. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus org         2.7           Depth Interval         Announ, Type of Material and Date of Chemical Diadours uplead on FracFocus org           525':5606'         MC 20 <sup>th</sup> stage with 323250#, 20/40 & 3.0/50 F5A Sand           5005':6046'         MC 22 <sup>th</sup> stage with 322320#, 20/40 & 3.0/50 F5A Sand           6624':6766'         MC 22 <sup>th</sup> stage with 322820#, 20/40 & 3.0/50 F5A Sand           6621':6766'         MC 24 <sup>th</sup> stage with 322630#, 20/40 & 3.0/50 F5A Sand           6635':6446'         MC 24 <sup>th</sup> stage with 322850#, 20/40 & 3.0/50 F5A Sand           7285':7866'         MC 22 <sup>th</sup> stage with 32280#, 20/40 & 3.0/50 F5A Sand           7285':7866'         MC 22 <sup>th</sup> stage with 32250#, 20/40 & 3.0/50 F5A Sand           7285':7866'         MC 22 <sup>th</sup> stage with 32250#, 20/40 & 3.0/50 F5A Sand           7285'	Mancos 6 <sup>th</sup>			10045'-10185'		_				
Mancos 4 <sup>a</sup> 10405'-10547'         35 & 42           Mancos 3 <sup>a</sup> 10582'-10725'         35 & 42           Mancos 3 <sup>a</sup> 10765'-10905'         35 & 42           Mancos 1 <sup>a</sup> 10945'-10950'         35 & 42           27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing disclosures on FracFocus.org         35 & 42           Depth Interval         Amous, Type of Material and Date of Cenical Disclosure upload on FracFocus.org           5725'-5866'         MC 30 <sup>a</sup> stage with 3228507, 20/40 & 30/50 P5A Sand           5005'-6046'         MC 28 <sup>a</sup> stage with 3228007, 20/40 & 30/50 P5A Sand           6265'-6215'         MC 28 <sup>a</sup> stage with 3228007, 20/40 & 30/50 P5A Sand           6621'-6766'         MC 25 <sup>bh</sup> stage with 3228007, 20/40 & 30/50 P5A Sand           6621'-6766'         MC 28 <sup>ah</sup> stage with 3228207, 20/40 & 30/50 P5A Sand           6955'-7126'         MC 22 <sup>ah</sup> stage with 3228107, 20/40 & 30/50 P5A Sand           6955'-7126'         MC 22 <sup>ah</sup> stage with 326507, 20/40 & 30/50 P5A Sand           7155'-7305'         MC 22 <sup>ah</sup> stage with 326507, 20/40 & 30/50 P5A Sand           7255'-766'         MC 21 <sup>ah</sup> stage with 326507, 20/40 & 30/50 P5A Sand           7255'-766'         MC 21 <sup>ah</sup> stage with 326507, 20/40 & 30/50 P5A Sand           7255'-766'         MC 21 <sup>ah</sup> stage with 326507, 20/40 & 30/50 P5A Sand           725'-7846'	Mancos 5 <sup>th</sup>			10225'-10366'						
Mancos 3 <sup>rd</sup> 10582'-10725'         35 & 4.2           Mancos 2 <sup>rd</sup> 10765'-10905'         35 & 4.2           Mancos 1 <sup>rd</sup> 10945'-10950'         35 & 4.2           27. Acid, Fracture, Treament, Cement Squeeze, Post hydraulic fracturing, chemical disclosures on PracFocusorg.         20           Depth Interval         Normant, Type of Material and Date of Chemical Disclosure upload on FracFocusorg           5725'-5866'         MC 30 <sup>th</sup> stage with 3232500, 20/40 & 30/50 P5A Sand           6085'-6222'         MC 28 <sup>th</sup> stage with 3232500, 20/40 & 30/50 P5A Sand           6265'-6403'         MC 27 <sup>th</sup> stage with 3228500, 20/40 & 30/50 P5A Sand           6265'-6403'         MC 27 <sup>th</sup> stage with 3228500, 20/40 & 30/50 P5A Sand           6265'-6404'         MC 28 <sup>th</sup> stage with 3226500, 20/40 & 30/50 P5A Sand           6261'-6766'         MC 23 <sup>th</sup> stage with 3226500, 20/40 & 30/50 P5A Sand           6305'-67126'         MC 23 <sup>th</sup> stage with 3226500, 20/40 & 30/50 P5A Sand           7265'-7485'         MC 21 <sup>th</sup> stage with 3226500, 20/40 & 30/50 P5A Sand           725'-7486'         MC 21 <sup>th</sup> stage with 322510, 20/40 & 30/50 P5A Sand           725'-7466'         MC 21 <sup>th</sup> stage with 322510, 20/40 & 30/50 P5A Sand           725'-7466'         MC 21 <sup>th</sup> stage with 322510, 20/40 & 30/50 P5A Sand           725'-7466'         MC 19 <sup>th</sup> stage with 322510, 20/40 & 30/50 P5A Sand	Mancos 4 <sup>th</sup>			L0405'-10547'						
Mances 2 <sup>ad</sup> 10765'-10905'         35 & 4.2           Mances 1 <sup>a</sup> 10945'-10950'         35 & 4.2           27. Acid, Fracture, Treatment, Cement Squeeze, Post bydraulic fracturing chemical disclesures on FrueFocus org.         Anount, Type of Material ad Safe of Chemical Disclosure upload on FrueFocus.org           5725'-5866'         MC 30 <sup>th</sup> stage with 32350ft, 20/40 & 30/50 P5A Sand         505'-60.46'         MC 29 <sup>th</sup> stage with 32350ft, 20/40 & 30/50 P5A Sand           5605'-6046'         MC 29 <sup>th</sup> stage with 32350ft, 20/40 & 30/50 P5A Sand         566'-640.3'         MC 27 <sup>th</sup> stage with 328400H, 20/40 & 30/50 P5A Sand           6625'-6403'         MC 26 <sup>th</sup> stage with 32840H, 20/40 & 30/50 P5A Sand         566'-640.45'-658'         MC 26 <sup>th</sup> stage with 32850H, 20/40 & 30/50 P5A Sand           6624'-6766'         MC 22 <sup>th</sup> stage with 32650H, 20/40 & 30/50 P5A Sand         568'-610.42 C 4 <sup>th</sup> stage with 32650H, 20/40 & 30/50 P5A Sand           6805'-6946'         MC 22 <sup>th</sup> stage with 32650H, 20/40 & 30/50 P5A Sand         5725'-666'         MC 22 <sup>th</sup> stage with 32650H, 20/40 & 30/50 P5A Sand           7345'-7485'         MC 21 <sup>th</sup> stage with 32250H, 20/40 & 30/50 P5A Sand         5725'-7666'         MC 20 <sup>th</sup> stage with 32750H, 20/40 & 30/50 P5A Sand           7345'-7485'         MC 12 <sup>th</sup> stage with 32250H, 20/40 & 30/50 P5A Sand         5725'-7666'         MC 20 <sup>th</sup> stage with 32750H, 20/40 & 30/50 P5A Sand           7385'-7846'         MC 19 <sup>th</sup> stage with 32250H, 20/40 & 30/50	Mancos 3 <sup>rd</sup>				1					<u></u>
Mancos 1ª         IO945'-10950'         IS 6, 12           27. Acid, Fracture, Treatment, Cement Squeeze, Post Nydmulic finaturing chemical disclosures on FracFocus.org         Depth Interval         Amount, Tyse of Chemical Disclosure upload on FracFocus.org           3725'-5866'         MC 30 <sup>th</sup> stage with 3238504, 20/40 & 30/50 P5A Sand         Solos Focus         Solos Focus           5005'-6046'         MC 29 <sup>th</sup> stage with 3232504, 20/40 & 30/50 P5A Sand         Solos Focus         Solos Focus           6265'-6240'         MC 28 <sup>th</sup> stage with 3248004, 20/40 & 30/50 P5A Sand         Solos Focus         Solos Focus           6265'-6403'         MC 22 <sup>th</sup> stage with 328504, 20/40 & 30/50 P5A Sand         Solos Focus         Solos Focus           6265'-66'         MC 28 <sup>th</sup> stage with 328504, 20/40 & 30/50 P5A Sand         Solos Focus         Solos Focus           6605'-6946'         MC 28 <sup>th</sup> stage with 326504, 20/40 & 30/50 P5A Sand         Solos Focus         Solos Focus           6605'-6946'         MC 21 <sup>th</sup> stage with 326504, 20/40 & 30/50 P5A Sand         Solos Focus         Solos Focus           7155'-7305'         MC 22 <sup>th</sup> stage with 326504, 20/40 & 30/50 P5A Sand         Solos Focus         Solos Focus           7255'-666'         MC 20 <sup>th</sup> stage with 327504, 20/40 & 30/50 P5A Sand         Solos Focus         Solos Focus           7265'-7846'         MC 19 <sup>th</sup> stage with 327504, 20/40 & 30/50 P5A Sand										
27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org         Anoual. Type of Material and Date of Chemical Disclosure upload on FracFocus.org           525'-5866'         MC 30 <sup>th</sup> stage with 323250H, 20/40 & 30/50 PSA Sand         5005'-6046'         MC 29 <sup>th</sup> stage with 323250H, 20/40 & 30/50 PSA Sand           5005'-6046'         MC 29 <sup>th</sup> stage with 323250H, 20/40 & 30/50 PSA Sand         5005'-6046'         MC 29 <sup>th</sup> stage with 323250H, 20/40 & 30/50 PSA Sand           6085'-6225'         MC 26 <sup>th</sup> stage with 327850H, 20/40 & 30/50 PSA Sand         565'-6403'         MC 27 <sup>th</sup> stage with 327850H, 20/40 & 30/50 PSA Sand           6621'-6766'         MC 25 <sup>th</sup> stage with 327850H, 20/40 & 30/50 PSA Sand         565'-6404'         MC 29 <sup>th</sup> stage with 327850H, 20/40 & 30/50 PSA Sand           6805'-6746'         MC 22 <sup>th</sup> stage with 327850H, 20/40 & 30/50 PSA Sand         5745'         MC 32 <sup>th</sup> stage with 327805H, 20/40 & 30/50 PSA Sand           7165'         MC 22 <sup>th</sup> stage with 327806H, 20/40 & 30/50 PSA Sand         575'-566'         MC 20 <sup>th</sup> stage with 327806H, 20/40 & 30/50 PSA Sand           725'-7666'         MC 20 <sup>th</sup> stage with 327806H, 20/40 & 30/50 PSA Sand         575'-5846'         MC 19 <sup>th</sup> stage with 327806H, 20/40 & 30/50 PSA Sand           8265'-525'         MC 18 <sup>th</sup> stage with 327500H, 20/40 & 30/50 PSA Sand         585'-515'         585'-515'           8265'-506'         MC 19 <sup>th</sup> stage with 327500H, 20/40 & 30/50 PSA Sand         585'-516'							<u> </u>			
Depth Interval         Amount. Type of Material and Date of Chemical Diadosure upload on FracFocus.org           5725'-5866'         MC 29" stage with 323850#, 20/40 & 30/50 PSA Sand           6085'-6225'         MC 28" stage with 32350#, 20/40 & 30/50 PSA Sand           6265'-6403'         MC 27" stage with 32850#, 20/40 & 30/50 PSA Sand           6265'-6403'         MC 27" stage with 32850#, 20/40 & 30/50 PSA Sand           6265'-6403'         MC 26" stage with 32850#, 20/40 & 30/50 PSA Sand           6625'-6766'         MC 24" stage with 32850#, 20/40 & 30/50 PSA Sand           6625'-6946'         MC 24" stage with 32650#, 20/40 & 30/50 PSA Sand           6805'-7126'         MC 24" stage with 32650#, 20/40 & 30/50 PSA Sand           7345'-7485'         MC 21" stage with 32650#, 20/40 & 30/50 PSA Sand           7345'-7485'         MC 21" stage with 32650#, 20/40 & 30/50 PSA Sand           725'-7466'         MC 20" stage with 326230#, 20/40 & 30/50 PSA Sand           725'-7465'         MC 20" stage with 326230#, 20/40 & 30/50 PSA Sand           785'-826'         MC 18" stage with 326230#, 20/40 & 30/50 PSA Sand           785'-846'         MC 19" stage with 326230#, 20/40 & 30/50 PSA Sand           8425'-835'         MC 18" stage with 32620#, 20/40 & 30/50 PSA Sand           845'-9106'         MC 18" stage with 32620#, 20/40 & 30/50 PSA Sand           8423'-8566'         MC 18" stage with 32620#,		nent Squeeze. Post hvd						,		
S905'-6046'         MC 29 <sup>th</sup> stage with 323250#, 20/40 & 30/50 PSA Sand           6085'-6225'         MC 28 <sup>th</sup> stage with 32800#, 20/40 & 30/50 PSA Sand           6265'-6403'         MC 27 <sup>th</sup> stage with 32800#, 20/40 & 30/50 PSA Sand           6451'-6588'         MC 26 <sup>th</sup> stage with 328300#, 20/40 & 30/50 PSA Sand           6621'-6766'         MC 25 <sup>th</sup> stage with 328240#, 20/40 & 30/50 PSA Sand           6805'-6946'         MC 24 <sup>th</sup> stage with 32650#, 20/40 & 30/50 PSA Sand           6805'-7305'         MC 22 <sup>nd</sup> stage with 326680#, 20/40 & 30/50 PSA Sand           7165'-7305'         MC 21 <sup>st</sup> stage with 326680#, 20/40 & 30/50 PSA Sand           7255'-7666'         MC 21 <sup>st</sup> stage with 32850#, 20/40 & 30/50 PSA Sand           7735'-7484'         MC 21 <sup>st</sup> stage with 322630#, 20/40 & 30/50 PSA Sand           7255'-7666'         MC 21 <sup>st</sup> stage with 32250#, 20/40 & 30/50 PSA Sand           7255'-7846'         MC 18 <sup>th</sup> stage with 32250#, 20/40 & 30/50 PSA Sand           8065'-8205'         MC 18 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand           8245'-8385'         MC 16 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand           8245'-8385'         MC 14 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand           8210'-8746'         MC 14 <sup>th</sup> stage with 32620#, 20/40 & 30/50 PSA Sand           8325'-926'         MC 13 <sup>th</sup> stage with 32690#, 20/40 & 30/50 PSA Sand           9325'-9466'		[					d on FracFocus	.org		
6085'-6225'         MC 28 <sup>th</sup> stage with 326400#, 20/40 & 30/50 PSA Sand           6265'-6403'         MC 27 <sup>th</sup> stage with 32890#, 20/40 & 30/50 PSA Sand           6445'-6588'         MC 26 <sup>th</sup> stage with 32820#, 20/40 & 30/50 PSA Sand           6805'-6946'         MC 23 <sup>th</sup> stage with 32820#, 20/40 & 30/50 PSA Sand           6805'-6946'         MC 23 <sup>th</sup> stage with 32820#, 20/40 & 30/50 PSA Sand           6805'-7126'         MC 23 <sup>th</sup> stage with 32850#, 20/40 & 30/50 PSA Sand           7165'-7305'         MC 22 <sup>th</sup> stage with 32850#, 20/40 & 30/50 PSA Sand           7165'-7305'         MC 22 <sup>th</sup> stage with 32850#, 20/40 & 30/50 PSA Sand           7255'-7666'         MC 20 <sup>th</sup> stage with 32850#, 20/40 & 30/50 PSA Sand           7255'-7666'         MC 20 <sup>th</sup> stage with 32850#, 20/40 & 30/50 PSA Sand           7255'-7666'         MC 10 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand           8065'-8205'         MC 19 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand           8065'-8205'         MC 16 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand           8245'-8385'         MC 16 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand           8245'-8385'         MC 16 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand           8245'-8385'         MC 16 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand           8245'-8385'         MC 16 <sup>th</sup> stage with 32650#, 20/40 & 30/50 PSA Sand           826'         MC 16 <sup>th</sup> s	5725'-5866'	MC 30 <sup>th</sup> stage with	323850#, 20/40	& 30/50 PSA Sand						
6265'-6403'         MC 27th stage with 328900#, 20/40 & 30/50 PSA Sand           6445'-6588'         MC 26th stage with 327850#, 20/40 & 30/50 PSA Sand           6621'-6766'         MC 25th stage with 328260#, 20/40 & 30/50 PSA Sand           6805'-6946'         MC 23th stage with 328560#, 20/40 & 30/50 PSA Sand           6985'-7126'         MC 22th stage with 327720#, 20/40 & 30/50 PSA Sand           7165'-7305'         MC 22th stage with 32660#, 20/40 & 30/50 PSA Sand           7255'-7666'         MC 22th stage with 32650#, 20/40 & 30/50 PSA Sand           7705'-7845'         MC 21th stage with 32650#, 20/40 & 30/50 PSA Sand           7705'-7846'         MC 19th stage with 32630#, 20/40 & 30/50 PSA Sand           7705'-7846'         MC 19th stage with 32630#, 20/40 & 30/50 PSA Sand           8065'-8205'         MC 18th stage with 32750#, 20/40 & 30/50 PSA Sand           8245'-8385'         MC 16th stage with 327560#, 20/40 & 30/50 PSA Sand           8245'-8385'         MC 16th stage with 32750#, 20/40 & 30/50 PSA Sand           8610'-8746'         MC 13th stage with 32651#, 20/40 & 30/50 PSA Sand           8785'-8926'         MC 13th stage with 326180#, 20/40 & 30/50 PSA Sand           8965'-9106'         MC 13th stage with 326180#, 20/40 & 30/50 PSA Sand           9325'-9466'         MC 13th stage with 326920#, 20/40 & 30/50 PSA Sand           9325'-9466'         MC 13th stage with 326920#, 20	5905'-6046'	MC 29 <sup>th</sup> stage with	323250#, 20/40	& 30/50 PSA Sand						
6445'-6588'         MC 26 <sup>th</sup> stage with 327850#, 20/40 & 30/50 PSA Sand           6621'-6766'         MC 23 <sup>th</sup> stage with 328260#, 20/40 & 30/50 PSA Sand           6805'-6946'         MC 24 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand           6805'-7126'         MC 22 <sup>th</sup> stage with 326680#, 20/40 & 30/50 PSA Sand           7165'-7305'         MC 22 <sup>th</sup> stage with 326680#, 20/40 & 30/50 PSA Sand           7165'-7485'         MC 21 <sup>th</sup> stage with 326800#, 20/40 & 30/50 PSA Sand           725'-7666'         MC 20 <sup>th</sup> stage with 326230#, 20/40 & 30/50 PSA Sand           725'-7666'         MC 20 <sup>th</sup> stage with 326230#, 20/40 & 30/50 PSA Sand           7885'-8025'         MC 18 <sup>th</sup> stage with 326230#, 20/40 & 30/50 PSA Sand           8065'-8205'         MC 11 <sup>th</sup> stage with 327560#, 20/40 & 30/50 PSA Sand           8245'-8385'         MC 16 <sup>th</sup> stage with 327560#, 20/40 & 30/50 PSA Sand           8245'-8385'         MC 16 <sup>th</sup> stage with 327560#, 20/40 & 30/50 PSA Sand           8610'-8746'         MC 14 <sup>th</sup> stage with 32620#, 20/40 & 30/50 PSA Sand           8610'-8746'         MC 14 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand           895'-9106'         MC 12 <sup>th</sup> stage with 32620#, 20/40 & 30/50 PSA Sand           925'-926'         MC 13 <sup>th</sup> stage with 32620#, 20/40 & 30/50 PSA Sand           925'-9466'         MC 10 <sup>th</sup> stage with 32620#, 20/40 & 30/50 PSA Sand           925'-9466'	6085'-6225'	MC 28 <sup>th</sup> stage with	326400#, 20/40	& 30/50 PSA Sand						
6621'-6766'         MC 25 <sup>th</sup> stage with 328240#, 20/40 & 30/50 PSA Sand           6805'-6946'         MC 24 <sup>th</sup> stage with 32650#, 20/40 & 30/50 PSA Sand           6985'-7126'         MC 23 <sup>rd</sup> stage with 327720#, 20/40 & 30/50 PSA Sand           7165'-7305'         MC 21 <sup>rd</sup> stage with 32650#, 20/40 & 30/50 PSA Sand           7345'-7485'         MC 21 <sup>rd</sup> stage with 32650#, 20/40 & 30/50 PSA Sand           7355'-7666'         MC 20 <sup>th</sup> stage with 32630#, 20/40 & 30/50 PSA Sand           7255'-7666'         MC 20 <sup>th</sup> stage with 326910#, 20/40 & 30/50 PSA Sand           705'-7846'         MC 18 <sup>th</sup> stage with 3226910#, 20/40 & 30/50 PSA Sand           785'-8025'         MC 18 <sup>th</sup> stage with 3226910#, 20/40 & 30/50 PSA Sand           8055'-8205'         MC 16 <sup>th</sup> stage with 322750H, 20/40 & 30/50 PSA Sand           8423'-8385'         MC 16 <sup>th</sup> stage with 32750H, 20/40 & 30/50 PSA Sand           8423'-8366'         MC 15 <sup>th</sup> stage with 322750H, 20/40 & 30/50 PSA Sand           8423'-8566'         MC 12 <sup>th</sup> stage with 322750H, 20/40 & 30/50 PSA Sand           8785'-8926'         MC 13 <sup>th</sup> stage with 32270H, 20/40 & 30/50 PSA Sand           8785'-8926'         MC 13 <sup>th</sup> stage with 32260H, 20/40 & 30/50 PSA Sand           9785'-926'         MC 13 <sup>th</sup> stage with 32620H, 20/40 & 30/50 PSA Sand           9785'-926'         MC 13 <sup>th</sup> stage with 32620H, 20/40 & 30/50 PSA Sand           9785'-926'	6265'-6403'	MC 27 <sup>th</sup> stage with	328900#, 20/40	& 30/50 PSA Sand						
6805'-6946'         MC 24 <sup>th</sup> stage with 326650#, 20/40 & 30/50 PSA Sand           6985'-7126'         MC 23 <sup>rd</sup> stage with 326680#, 20/40 & 30/50 PSA Sand           7165'-7305'         MC 22 <sup>nd</sup> stage with 326580#, 20/40 & 30/50 PSA Sand           7345'-7485'         MC 21 <sup>th</sup> stage with 327850#, 20/40 & 30/50 PSA Sand           7355'-7666'         MC 20 <sup>th</sup> stage with 327850#, 20/40 & 30/50 PSA Sand           7705'-7846'         MC 19 <sup>th</sup> stage with 326230#, 20/40 & 30/50 PSA Sand           7705'-7846'         MC 19 <sup>th</sup> stage with 327260#, 20/40 & 30/50 PSA Sand           8065'-8205'         MC 15 <sup>th</sup> stage with 327260#, 20/40 & 30/50 PSA Sand           8065'-8205'         MC 15 <sup>th</sup> stage with 327560#, 20/40 & 30/50 PSA Sand           8423'-8856'         MC 15 <sup>th</sup> stage with 327561#, 20/40 & 30/50 PSA Sand           8423'-8856'         MC 13 <sup>th</sup> stage with 326210#, 20/40 & 30/50 PSA Sand           856'-9106'         MC 13 <sup>th</sup> stage with 326200#, 20/40 & 30/50 PSA Sand           8785'-8926'         MC 11 <sup>th</sup> stage with 326200#, 20/40 & 30/50 PSA Sand           9325'-9466'         MC 10 <sup>th</sup> stage with 326200#, 20/40 & 30/50 PSA Sand           9325'-9466'         MC 10 <sup>th</sup> stage with 32730#, 20/40 & 30/50 PSA Sand           9325'-9466'         MC 10 <sup>th</sup> stage with 32730#, 20/40 & 30/50 PSA Sand           9685'-9106'         MC 10 <sup>th</sup> stage with 32730#, 20/40 & 30/50 PSA Sand           9685'-9106'	6445'-6588'	MC 26 <sup>th</sup> stage with 327850#, 20/40 & 30/50 PSA Sand								
6985'-7126'         MC 23' <sup>d</sup> stage with 327720#, 20/40 & 30/50 PSA Sand           7165'-7305'         MC 22 <sup>nd</sup> stage with 326680#, 20/40 & 30/50 PSA Sand           7345'-7485'         MC 21 <sup>st</sup> stage with 328550#, 20/40 & 30/50 PSA Sand           7525'-7666'         MC 20 <sup>th</sup> stage with 327806#, 20/40 & 30/50 PSA Sand           7705'-7846'         MC 13 <sup>th</sup> stage with 326320#, 20/40 & 30/50 PSA Sand           7705'-7846'         MC 18 <sup>th</sup> stage with 326320#, 20/40 & 30/50 PSA Sand           8065'-8205'         MC 18 <sup>th</sup> stage with 327500#, 20/40 & 30/50 PSA Sand           8065'-8205'         MC 16 <sup>th</sup> stage with 327500#, 20/40 & 30/50 PSA Sand           8245'-8385'         MC 16 <sup>th</sup> stage with 327500#, 20/40 & 30/50 PSA Sand           8423'-8566'         MC 15 <sup>th</sup> stage with 32250#, 20/40 & 30/50 PSA Sand           8423'-8566'         MC 13 <sup>th</sup> stage with 32651#, 20/40 & 30/50 PSA Sand           8610'-8746'         MC 13 <sup>th</sup> stage with 32650#, 20/40 & 30/50 PSA Sand           895'-9106'         MC 12 <sup>th</sup> stage with 32630#, 20/40 & 30/50 PSA Sand           9135'-9285'         MC 11 <sup>th</sup> stage with 32630#, 20/40 & 30/50 PSA Sand           925'-9466'         MC 10 <sup>th</sup> stage with 32630#, 20/40 & 30/50 PSA Sand           9505'-9646'         MC 10 <sup>th</sup> stage with 32730#, 20/40 & 30/50 PSA Sand           9505'-9646'         MC 10 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand           9505'-9646' <t< td=""><td>6621'-6766'</td><td>MC 25<sup>th</sup> stage with</td><td>328240#, 20/40</td><td>&amp; 30/50 PSA Sand</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	6621'-6766'	MC 25 <sup>th</sup> stage with	328240#, 20/40	& 30/50 PSA Sand						
7165'-7305'         MC 22 <sup>nd</sup> stage with 326680#, 20/40 & 30/50 PSA Sand           7345'-7485'         MC 21 <sup>nt</sup> stage with 328550#, 20/40 & 30/50 PSA Sand           7525'-7666'         MC 20 <sup>th</sup> stage with 322850#, 20/40 & 30/50 PSA Sand           7705'-7846'         MC 19 <sup>th</sup> stage with 326230#, 20/40 & 30/50 PSA Sand           7885'-8025'         MC 18 <sup>th</sup> stage with 322610#, 20/40 & 30/50 PSA Sand           8065'-8205'         MC 17 <sup>th</sup> stage with 327560#, 20/40 & 30/50 PSA Sand           8245'-8385'         MC 16 <sup>th</sup> stage with 327560#, 20/40 & 30/50 PSA Sand           8423'-8566'         MC 15 <sup>th</sup> stage with 327651#, 20/40 & 30/50 PSA Sand           8610'-8746'         MC 14 <sup>th</sup> stage with 326180#, 20/40 & 30/50 PSA Sand           8785'-8926'         MC 11 <sup>th</sup> stage with 326180#, 20/40 & 30/50 PSA Sand           8785'-9106'         MC 12 <sup>th</sup> stage with 326180#, 20/40 & 30/50 PSA Sand           9145'-9285'         MC 11 <sup>th</sup> stage with 32620#, 20/40 & 30/50 PSA Sand           925'-9466'         MC 10 <sup>th</sup> stage with 32760#, 20/40 & 30/50 PSA Sand           955'-9646'         MC 9 <sup>th</sup> stage with 32620#, 20/40 & 30/50 PSA Sand           9685'-9106'         MC 10 <sup>th</sup> stage with 32760#, 20/40 & 30/50 PSA Sand           9505'-9646'         MC 9 <sup>th</sup> stage with 32760#, 20/40 & 30/50 PSA Sand           9685'-9106'         MC 10 <sup>th</sup> stage with 327505#, 20/40 & 30/50 PSA Sand           9685'-1006'         <	6805'-6946'	MC 24 <sup>th</sup> stage with	326650#, 20/40	& 30/50 PSA Sand						
7345'-7485'       MC 21 <sup>st</sup> stage with 328550#, 20/40 & 30/50 PSA Sand         7525'-7666'       MC 20 <sup>th</sup> stage with 3227806#, 20/40 & 30/50 PSA Sand         7705'-7846'       MC 19 <sup>th</sup> stage with 326310#, 20/40 & 30/50 PSA Sand         7885'-8025'       MC 18 <sup>th</sup> stage with 3226310#, 20/40 & 30/50 PSA Sand         8065'-8205'       MC 17 <sup>th</sup> stage with 327560#, 20/40 & 30/50 PSA Sand         8245'-8385'       MC 16 <sup>th</sup> stage with 327560#, 20/40 & 30/50 PSA Sand         8423'-8566'       MC 15 <sup>th</sup> stage with 327561#, 20/40 & 30/50 PSA Sand         810'-8746'       MC 14 <sup>th</sup> stage with 32250#, 20/40 & 30/50 PSA Sand         8785'-8926'       MC 13 <sup>th</sup> stage with 326180#, 20/40 & 30/50 PSA Sand         8965'-9106'       MC 12 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand         9145'-9285'       MC 11 <sup>th</sup> stage with 322620#, 20/40 & 30/50 PSA Sand         9145'-9285'       MC 11 <sup>th</sup> stage with 3226200#, 20/40 & 30/50 PSA Sand         9505'-9646'       MC 20 <sup>th</sup> stage with 32730#, 20/40 & 30/50 PSA Sand         9685'-9826'       MC 8 <sup>th</sup> stage with 32730#, 20/40 & 30/50 PSA Sand         9685'-9826'       MC 8 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand         9685'-9826'       MC 8 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand         9685'-10006'       MC 7 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand         10045'-10185'       MC 6 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand<	6985'-7126'									
7525'-7666'         MC 20 <sup>th</sup> stage with 327806#, 20/40 & 30/50 PSA Sand           7705'-7846'         MC 19 <sup>th</sup> stage with 326910#, 20/40 & 30/50 PSA Sand           7885'-8025'         MC 18 <sup>th</sup> stage with 327500#, 20/40 & 30/50 PSA Sand           8065'-8205'         MC 17 <sup>th</sup> stage with 327560#, 20/40 & 30/50 PSA Sand           8245'-8385'         MC 16 <sup>th</sup> stage with 327560#, 20/40 & 30/50 PSA Sand           8423'-8386'         MC 15 <sup>th</sup> stage with 327561#, 20/40 & 30/50 PSA Sand           8423'-8566'         MC 15 <sup>th</sup> stage with 328250#, 20/40 & 30/50 PSA Sand           8610'-8746'         MC 11 <sup>th</sup> stage with 328250#, 20/40 & 30/50 PSA Sand           865'-9106'         MC 12 <sup>th</sup> stage with 326180#, 20/40 & 30/50 PSA Sand           8955'-9106'         MC 11 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand           9145'-9285'         MC 11 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand           9255'-9466'         MC 10 <sup>th</sup> stage with 326900#, 20/40 & 30/50 PSA Sand           9685'-9826'         MC 8 <sup>th</sup> stage with 32730#, 20/40 & 30/50 PSA Sand           9685'-9826'         MC 8 <sup>th</sup> stage with 326950#, 20/40 & 30/50 PSA Sand           9685'-9826'         MC 8 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand           9685'-10006'         MC 7 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand           9685'-10006'         MC 7 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand           10045'-10185'	7165'-7305'	MC 22 <sup>nd</sup> stage with	326680#, 20/40	& 30/50 PSA Sand						
7705'-7846'       MC 19 <sup>th</sup> stage with 326230#, 20/40 & 30/50 PSA Sand         7885'-8025'       MC 18 <sup>th</sup> stage with 327260#, 20/40 & 30/50 PSA Sand         8065'-8205'       MC 17 <sup>th</sup> stage with 327260#, 20/40 & 30/50 PSA Sand         8245'-8385'       MC 16 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand         8423'-8566'       MC 15 <sup>th</sup> stage with 327651#, 20/40 & 30/50 PSA Sand         8423'-8566'       MC 15 <sup>th</sup> stage with 327651#, 20/40 & 30/50 PSA Sand         8610'-8746'       MC 14 <sup>th</sup> stage with 328250#, 20/40 & 30/50 PSA Sand         8785'-8926'       MC 13 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand         8965'-9106'       MC 12 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand         9145'-9285'       MC 11 <sup>th</sup> stage with 326200#, 20/40 & 30/50 PSA Sand         9255'-9466'       MC 9 <sup>th</sup> stage with 32690#, 20/40 & 30/50 PSA Sand         9685'-9826'       MC 9 <sup>th</sup> stage with 32690#, 20/40 & 30/50 PSA Sand         9685'-9826'       MC 9 <sup>th</sup> stage with 32690#, 20/40 & 30/50 PSA Sand         9685'-9826'       MC 9 <sup>th</sup> stage with 32700#, 20/40 & 30/50 PSA Sand         9685'-10006'       MC 7 <sup>th</sup> stage with 32700#, 20/40 & 30/50 PSA Sand         10045'-10185'       MC 6 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand         10225'-10366'       MC 6 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand         10225'-10366'       MC 6 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand	7345'-7485'	MC 21 <sup>st</sup> stage with	328550#, 20/40	& 30/50 PSA Sand						
7885'-8025'       MC 18 <sup>th</sup> stage with 326910#, 20/40 & 30/50 PSA Sand         8065'-8205'       MC 17 <sup>th</sup> stage with 327260#, 20/40 & 30/50 PSA Sand         8245'-8385'       MC 16 <sup>th</sup> stage with 327560#, 20/40 & 30/50 PSA Sand         8423'-8566'       MC 15 <sup>th</sup> stage with 327551#, 20/40 & 30/50 PSA Sand         8610'-8746'       MC 14 <sup>th</sup> stage with 328250#, 20/40 & 30/50 PSA Sand         8785'-8926'       MC 13 <sup>th</sup> stage with 326180#, 20/40 & 30/50 PSA Sand         8965'-9106'       MC 12 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand         9145'-9285'       MC 11 <sup>th</sup> stage with 326200#, 20/40 & 30/50 PSA Sand         9325'-9466'       MC 10 <sup>th</sup> stage with 326200#, 20/40 & 30/50 PSA Sand         9505'-9646'       MC 10 <sup>th</sup> stage with 326950#, 20/40 & 30/50 PSA Sand         9685'-10006'       MC 8 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand         9685'-10006'       MC 7 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand         9865'-10006'       MC 7 <sup>th</sup> stage with 32760#, 20/40 & 30/50 PSA Sand         10045'-10185'       MC 6 <sup>th</sup> stage with 32760#, 20/40 & 30/50 PSA Sand         10045'-10185'       MC 6 <sup>th</sup> stage with 32760#, 20/40 & 30/50 PSA Sand         10045'-10185'       MC 6 <sup>th</sup> stage with 32760#, 20/40 & 30/50 PSA Sand         10045'-10185'       MC 6 <sup>th</sup> stage with 32750#, 20/40 & 30/50 PSA Sand         10045'-10185'       MC 6 <sup>th</sup> stage with 32850#, 20/40 & 30/50 PSA Sand<	7525'-7666'	MC 20 <sup>th</sup> stage with	327806#, 20/40	& 30/50 PSA Sand						
8065'-8205'         MC 17 <sup>th</sup> stage with 327260#, 20/40 & 30/50 PSA Sand           8245'-8385'         MC 16 <sup>th</sup> stage with 327561#, 20/40 & 30/50 PSA Sand           8423'-8566'         MC 15 <sup>th</sup> stage with 327651#, 20/40 & 30/50 PSA Sand           8610'-8746'         MC 14 <sup>th</sup> stage with 32250#, 20/40 & 30/50 PSA Sand           8785'-8926'         MC 13 <sup>th</sup> stage with 326180#, 20/40 & 30/50 PSA Sand           8965'-9106'         MC 12 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand           9145'-9285'         MC 11 <sup>th</sup> stage with 327230#, 20/40 & 30/50 PSA Sand           9325'-9466'         MC 10 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand           9325'-9466'         MC 10 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand           9505'-9646'         MC 9 <sup>th</sup> stage with 326950#, 20/40 & 30/50 PSA Sand           9685'-9826'         MC 8 <sup>th</sup> stage with 327430#, 20/40 & 30/50 PSA Sand           9685'-9826'         MC 8 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand           9685'-10006'         MC 7 <sup>th</sup> stage with 327500#, 20/40 & 30/50 PSA Sand           10045'-10185'         MC 6 <sup>th</sup> stage with 327500#, 20/40 & 30/50 PSA Sand           10225'-10366'         MC 5 <sup>th</sup> stage with 327500#, 20/40 & 30/50 PSA Sand           10405'-10547'         MC 4 <sup>th</sup> stage with 32650#, 20/40 & 30/50 PSA Sand           10405'-10547'         MC 4 <sup>th</sup> stage with 31060#, 20/40 & 30/50 PSA Sand           1045'-10547'	7705'-7846'	MC 19 <sup>th</sup> stage with	326230#, 20/40	& 30/50 PSA Sand						
8245'-8385'       MC 16 <sup>th</sup> stage with 327560#, 20/40 & 30/50 PSA Sand         8423'-8566'       MC 15 <sup>th</sup> stage with 327651#, 20/40 & 30/50 PSA Sand         8610'-8746'       MC 14 <sup>th</sup> stage with 328250#, 20/40 & 30/50 PSA Sand         8785'-8926'       MC 13 <sup>th</sup> stage with 326180#, 20/40 & 30/50 PSA Sand         8965'-9106'       MC 12 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand         9145'-9285'       MC 11 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand         9325'-9466'       MC 10 <sup>th</sup> stage with 326200#, 20/40 & 30/50 PSA Sand         9505'-9646'       MC 9 <sup>th</sup> stage with 326950#, 20/40 & 30/50 PSA Sand         9685'-9826'       MC 8 <sup>th</sup> stage with 327430#, 20/40 & 30/50 PSA Sand         9685'-10006'       MC 7 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand         10045'-10185'       MC 6 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand         10045'-10185'       MC 6 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand         10225'-10366'       MC 5 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand         10405'-10547'       MC 4 <sup>th</sup> stage with 331060#, 20/40 & 30/50 PSA Sand         10582'-10725'       MC 3 <sup>rd</sup> stage with 331060#, 20/40 & 30/50 PSA Sand         10765'-10905'       MC 2 <sup>rd</sup> stage with 331060#, 20/40 & 30/50 PSA Sand	7885'-8025'	MC 18 <sup>th</sup> stage with	326910#, 20/40	& 30/50 PSA Sand						
8423'-8566'       MC 15 <sup>th</sup> stage with 327651#, 20/40 & 30/50 PSA Sand         8610'-8746'       MC 14 <sup>th</sup> stage with 328250#, 20/40 & 30/50 PSA Sand         8785'-8926'       MC 13 <sup>th</sup> stage with 326180#, 20/40 & 30/50 PSA Sand         8965'-9106'       MC 12 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand         9145'-9285'       MC 11 <sup>th</sup> stage with 337230#, 20/40 & 30/50 PSA Sand         9325'-9466'       MC 10 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand         9505'-9646'       MC 9 <sup>th</sup> stage with 326950#, 20/40 & 30/50 PSA Sand         9685'-9826'       MC 8 <sup>th</sup> stage with 327530#, 20/40 & 30/50 PSA Sand         9685'-9106'       MC 8 <sup>th</sup> stage with 327690#, 20/40 & 30/50 PSA Sand         9685'-10006'       MC 7 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand         10045'-10185'       MC 6 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand         10225'-10366'       MC 5 <sup>th</sup> stage with 328550#, 20/40 & 30/50 PSA Sand         10405'-10547'       MC 4 <sup>th</sup> stage with 328550#, 20/40 & 30/50 PSA Sand         10405'-10547'       MC 4 <sup>th</sup> stage with 31060#, 20/40 & 30/50 PSA Sand         10582'-10725'       MC 3 <sup>rd</sup> stage with 32060#, 20/40 & 30/50 PSA Sand         10765'-10905'       MC 2 <sup>rd</sup> stage with 329600#, 20/40 & 30/50 PSA Sand	8065'-8205'	MC 17 <sup>th</sup> stage with	327260#, 20/40	& 30/50 PSA Sand						
8610'-8746'       MC 14 <sup>th</sup> stage with 328250#, 20/40 & 30/50 PSA Sand         8785'-8926'       MC 13 <sup>th</sup> stage with 326180#, 20/40 & 30/50 PSA Sand         8965'-9106'       MC 12 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand         9145'-9285'       MC 11 <sup>th</sup> stage with 337230#, 20/40 & 30/50 PSA Sand         9325'-9466'       MC 10 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand         9505'-9646'       MC 9 <sup>th</sup> stage with 326950#, 20/40 & 30/50 PSA Sand         9685'-9826'       MC 8 <sup>th</sup> stage with 327430#, 20/40 & 30/50 PSA Sand         9865'-10006'       MC 7 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand         10045'-10185'       MC 6 <sup>th</sup> stage with 32700#, 20/40 & 30/50 PSA Sand         10225'-10366'       MC 5 <sup>th</sup> stage with 32700#, 20/40 & 30/50 PSA Sand         10405'-10547'       MC 6 <sup>th</sup> stage with 32700#, 20/40 & 30/50 PSA Sand         10405'-10547'       MC 6 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand         10405'-10547'       MC 3 <sup>rd</sup> stage with 31060#, 20/40 & 30/50 PSA Sand         10582'-10725'       MC 3 <sup>rd</sup> stage with 331060#, 20/40 & 30/50 PSA Sand         10765'-10905'       MC 2 <sup>rd</sup> stage with 329600#, 20/40 & 30/50 PSA Sand	8245'-8385'				-					
8785'-8926'       MC 13 <sup>th</sup> stage with 326180#, 20/40 & 30/50 PSA Sand         8965'-9106'       MC 12 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand         9145'-9285'       MC 11 <sup>th</sup> stage with 337230#, 20/40 & 30/50 PSA Sand         9325'-9466'       MC 10 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand         9505'-9646'       MC 9 <sup>th</sup> stage with 326950#, 20/40 & 30/50 PSA Sand         9685'-9826'       MC 8 <sup>th</sup> stage with 327430#, 20/40 & 30/50 PSA Sand         9685'-10006'       MC 7 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand         9865'-10006'       MC 6 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand         10045'-10185'       MC 6 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand         10225'-10366'       MC 5 <sup>th</sup> stage with 32850#, 20/40 & 30/50 PSA Sand         10405'-10547'       MC 4 <sup>th</sup> stage with 31060#, 20/40 & 30/50 PSA Sand         10582'-10725'       MC 3 <sup>rd</sup> stage with 331060#, 20/40 & 30/50 PSA Sand         10765'-10905'       MC 2 <sup>rd</sup> stage with 331060#, 20/40 & 30/50 PSA Sand	8423'-8566'	MC 15 <sup>th</sup> stage with	327651#, 20/40	& 30/50 PSA Sand						
8965'-9106'       MC 12 <sup>th</sup> stage with 326920#, 20/40 & 30/50 PSA Sand         9145'-9285'       MC 11 <sup>th</sup> stage with 337230#, 20/40 & 30/50 PSA Sand         9325'-9466'       MC 10 <sup>th</sup> stage with 326200#, 20/40 & 30/50 PSA Sand         9505'-9646'       MC 9 <sup>th</sup> stage with 326950#, 20/40 & 30/50 PSA Sand         9685'-9826'       MC 8 <sup>th</sup> stage with 32730#, 20/40 & 30/50 PSA Sand         9685'-10006'       MC 7 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand         9865'-10006'       MC 7 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand         10045'-10185'       MC 6 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand         10225'-10366'       MC 5 <sup>th</sup> stage with 328550#, 20/40 & 30/50 PSA Sand         10405'-10547'       MC 4 <sup>th</sup> stage with 331060#, 20/40 & 30/50 PSA Sand         10582'-10725'       MC 3 <sup>rd</sup> stage with 331060#, 20/40 & 30/50 PSA Sand         10765'-10905'       MC 2 <sup>rd</sup> stage with 329600#, 20/40 & 30/50 PSA Sand	8610'-8746'	MC 14 <sup>th</sup> stage with	328250#, 20/40	& 30/50 PSA Sand						
9145'-9285'       MC 11 <sup>th</sup> stage with 337230#, 20/40 & 30/50 PSA Sand         9325'-9466'       MC 10 <sup>th</sup> stage with 326200#, 20/40 & 30/50 PSA Sand         9505'-9646'       MC 9 <sup>th</sup> stage with 326950#, 20/40 & 30/50 PSA Sand         9685'-9826'       MC 8 <sup>th</sup> stage with 327430#, 20/40 & 30/50 PSA Sand         9865'-10006'       MC 7 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand         10045'-10185'       MC 6 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand         10225'-10366'       MC 5 <sup>th</sup> stage with 328550#, 20/40 & 30/50 PSA Sand         10405'-10547'       MC 4 <sup>th</sup> stage with 331060#, 20/40 & 30/50 PSA Sand         10582'-10725'       MC 3 <sup>rd</sup> stage with 331060#, 20/40 & 30/50 PSA Sand         10765'-10905'       MC 2 <sup>nd</sup> stage with 332000#, 20/40 & 30/50 PSA Sand	8785'-8926'	MC 13 <sup>th</sup> stage with	326180#, 20/40	& 30/50 PSA Sand			•			
9325'-9466'         MC 10 <sup>th</sup> stage with 326200#, 20/40 & 30/50 PSA Sand           9505'-9646'         MC 9 <sup>th</sup> stage with 326950#, 20/40 & 30/50 PSA Sand           9685'-9826'         MC 8 <sup>th</sup> stage with 327430#, 20/40 & 30/50 PSA Sand           9865'-10006'         MC 7 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand           10045'-10185'         MC 6 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand           10225'-10366'         MC 5 <sup>th</sup> stage with 328550#, 20/40 & 30/50 PSA Sand           10405'-10547'         MC 4 <sup>th</sup> stage with 331060#, 20/40 & 30/50 PSA Sand           10582'-10725'         MC 3 <sup>rd</sup> stage with 331060#, 20/40 & 30/50 PSA Sand           10765'-10905'         MC 2 <sup>nd</sup> stage with 329600#, 20/40 & 30/50 PSA Sand	8965'-9106'									
9505'-9646'         MC 9th stage with 326950#, 20/40 & 30/50 PSA Sand           9685'-9826'         MC 8th stage with 327430#, 20/40 & 30/50 PSA Sand           9865'-10006'         MC 7th stage with 327050#, 20/40 & 30/50 PSA Sand           10045'-10185'         MC 6th stage with 327600#, 20/40 & 30/50 PSA Sand           10225'-10366'         MC 5th stage with 328550#, 20/40 & 30/50 PSA Sand           10405'-10547'         MC 4th stage with 331060#, 20/40 & 30/50 PSA Sand           10582'-10725'         MC 3rd stage with 331060#, 20/40 & 30/50 PSA Sand           10765'-10905'         MC 2rd stage with 329600#, 20/40 & 30/50 PSA Sand	9145'-9285'	MC 11 <sup>th</sup> stage with	337230#, 20/40	& 30/50 PSA Sand						
9685'-9826'         MC 8 <sup>th</sup> stage with 327430#, 20/40 & 30/50 PSA Sand           9865'-10006'         MC 7 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand           10045'-10185'         MC 6 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand           10225'-10366'         MC 5 <sup>th</sup> stage with 328550#, 20/40 & 30/50 PSA Sand           10405'-10547'         MC 4 <sup>th</sup> stage with 331060#, 20/40 & 30/50 PSA Sand           10582'-10725'         MC 3 <sup>rd</sup> stage with 331060#, 20/40 & 30/50 PSA Sand           10765'-10905'         MC 2 <sup>nd</sup> stage with 3329600#, 20/40 & 30/50 PSA Sand	9325'-9466'									
9865'-10006'         MC 7 <sup>th</sup> stage with 327050#, 20/40 & 30/50 PSA Sand           10045'-10185'         MC 6 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand           10225'-10366'         MC 5 <sup>th</sup> stage with 328550#, 20/40 & 30/50 PSA Sand           10405'-10547'         MC 4 <sup>th</sup> stage with 331060#, 20/40 & 30/50 PSA Sand           10582'-10725'         MC 3 <sup>rd</sup> stage with 331060#, 20/40 & 30/50 PSA Sand           10765'-10905'         MC 2 <sup>nd</sup> stage with 329600#, 20/40 & 30/50 PSA Sand	9505'-9646'	MC 9 <sup>th</sup> stage with 3	26950#, 20/40 8	& 30/50 PSA Sand						
10045'-10185'         MC 6 <sup>th</sup> stage with 327600#, 20/40 & 30/50 PSA Sand           10225'-10366'         MC 5 <sup>th</sup> stage with 328550#, 20/40 & 30/50 PSA Sand           10405'-10547'         MC 4 <sup>th</sup> stage with 331060#, 20/40 & 30/50 PSA Sand           10582'-10725'         MC 3 <sup>rd</sup> stage with 331060#, 20/40 & 30/50 PSA Sand           10765'-10905'         MC 2 <sup>nd</sup> stage with 329600#, 20/40 & 30/50 PSA Sand										
10225'-10366'         MC 5 <sup>th</sup> stage with 328550#, 20/40 & 30/50 PSA Sand           10405'-10547'         MC 4 <sup>th</sup> stage with 331060#, 20/40 & 30/50 PSA Sand           10582'-10725'         MC 3 <sup>rd</sup> stage with 331060#, 20/40 & 30/50 PSA Sand           10765'-10905'         MC 2 <sup>nd</sup> stage with 329600#, 20/40 & 30/50 PSA Sand	9865'-10006'	MC 7 <sup>th</sup> stage with 3	27050#, 20/40 8	& 30/50 PSA Sand						
10405'-10547'         MC 4 <sup>th</sup> stage with 331060#, 20/40 & 30/50 PSA Sand           10582'-10725'         MC 3 <sup>rd</sup> stage with 331060#, 20/40 & 30/50 PSA Sand           10765'-10905'         MC 2 <sup>nd</sup> stage with 329600#, 20/40 & 30/50 PSA Sand	10045'-10185'	······································								
10582'-10725'         MC 3 <sup>rd</sup> stage with 331060#, 20/40 & 30/50 PSA Sand           10765'-10905'         MC 2 <sup>nd</sup> stage with 329600#, 20/40 & 30/50 PSA Sand	10225'-10366'	MC 5 <sup>th</sup> stage with 3	28550#, 20/40 8	& 30/50 PSA Sand						
10765'-10905' MC 2 <sup>nd</sup> stage with 329600#, 20/40 & 30/50 PSA Sand										
10945'-10950' MC 1st stage with 241029# 20/40 & 30/50 PSA Sand								-		
	10945'-10950'	MC 1 <sup>st</sup> stage with 2	41029# 20/40 &	30/50 PSA Sand						

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Date First	Test Date	Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method	
Produced Will file		Tested 24 hr	Production	BBL	MCF	BBL	Corr. API.	Gravity	Flowing	
on										
delivery sundry										
Choke	Tbg.	Csg.	24 Hr.	Oil	Gas	Water	Gas/Oil	Well Status		
Size	Press. Flwg.	Press.	Rate	BBL	MCF	BBL	Ratio	Producing		
	SI									·
28a. Produ	1	val B		1						
Date First	Test Date	Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method	
Produced		Tested	Production	BBL	MCF	BBL	Corr. API.	Gravity		
Chala	The During			0.1	0	117-4	0	Well Chatar		
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status		
+ 10	SI								<u> </u>	
		<u> </u>	additional da	ta on pag	je 2)					
28b. Produ Date First	ction - Inter Test Date	rval C Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method	
Produced		Tested	Production		MCF	BBL	Corr. API.	Gravity	FIGUERION	
Choke	Tbg. Press.	Csg.	24 Hr.	Oil	Gas	Water	Gas/Oil	Well Status	- <b>-</b>	<u></u>
Size	Flwg. SI	Press.	Rate	BBL	MCF	BBL	Ratio			
28c. Produ Date First	iction - Inter	val D Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method	
Produced		Tested	Production		MCF	BBL	Corr. API.	Gravity	riduction Mediod	
Choke	Tbg. Press.		24 Hr.	Oil	Gas	Water	Gas/Oil	Well Status	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Size	Flwg. SI	Press.	Rate	BBL	MCF	BBL	Ratio			
28. Dispos	sition of Gas	(Solid, us	ed for fuel, ve	nted, etc	)					
30. Summa	ary of Porou	s Zones (li	nclude Aquif	ers):				31. Formatio	on (Log) Markers	
Show a	ll important	zones of po	prosity and co	ntents the	reof: Cored i	ntervals and all	drill-stem tests,			
includi: recover		erval tested	, cushion used	l, time to	ol open, fl	and shut-in	pressures and			
Formation		T D-m		Desision			4 4 -	Name		Тор
Form	ation	Top Botto		n Descriptions, Con			ents, etc.			Meas. Depth
	A1 A1 40	787	784							· · ·
	ALAMO									
		1003	997							
PICTU	RED CLIFFS	1331	131	_						
L	EWIS	1426	140							
CH	IACRA	1724	169	3						
CLIF	F HOUSE	2896	279	1						
М	NEFEE	2943	283	5						
POINT	LOOKOUT	3848	369	8						
	ANCOS	4009	385	2						
		4357	418							
	ALLUP	4337		<u> </u>						
								1		
32. Additi	onal remark	s (include j	olugging proc	edure).						· · · · · · · · · · · · · · · · · · ·
33. Indice	te which ite	ns have be	en attached b	v placing	a check in t	he annronriate }	oxes:			
33. Indicate which items have been attached by placing a check in the appropriate boxes:										
			eologic Report	DST Report		Directional Survey				
Sun	dry Notice for	plugging a	nd cement veri	fication		Core Analysis	Other:			
34. I heret	v certify the	at the fores	oing and atta	ched inf	rmation is of	mnlete and cor	Tect as determined f	rom all availa	hie records (see attached insta-	uctions) *
34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions) * Name (pleqseprint) Lacey Granillo Title Permit Specialist										
	N	<u>,                                    </u>	N: AP	5				41/JL		
Si	gnature		my				Date 2/14/19			
			.0							