



Bison Oil Well Cementing Tail & Lead

Customer: Crestone Peak Resources
Well Name: DAVIS 10-9H-G266

Date: 5/18/2018
Invoice #: 300134
API#: 05-123-46504
Foreman: JASON KELEHER

County: Weld
State: Colorado
Sec: 9
Twp: 2N
Range: 66W

Consultant: BRENT
Rig Name & Number: Ensign 153
Distance To Location: 26
Units On Location: 3
Time Requested: 1400
Time Arrived On Location: 1330
Time Left Location: 1730

| WELL DATA | Cement Data |
|---|--|
| Casing Size (in) : 9.625 Casing Weight (lb) : 40 Casing Depth (ft.) : 2,228 Total Depth (ft) : 2243 Open Hole Diameter (in) : 13.50 Conductor Length (ft) : 98 Conductor ID : 15.5 Shoe Joint Length (ft) : 86 Landing Joint (ft) : 5 Sacks of Tail Requested 190 HOC Tail (ft): One or the other, cannot have quantity in both Max Rate: 8 Max Pressure: 2000 | Lead N-Gel-12 Cement Name: Cement Density (lb/gal) : 13.5 Cement Yield (cuft) : 1.7 Gallons Per Sack 9.00 % Excess 20% Tail Type III Cement Name: Cement Density (lb/gal) : 15.2 Cement Yield (cuft) : 1.27 Gallons Per Sack: 5.89 % Excess: Fluid Ahead (bbls) 60.0 H2O Wash Up (bbls) 10.0 Spacer Ahead Makeup 60 BBL WATER DYE IN 2ND 10 |

| Casing ID 8.835 | Casing Grade J-55 only used |
|--|---|
| Lead Calculated Results | Tail Calculated Results |
| HOC of Lead 1710.51 ft | Tail Cement Volume In Ann 204.88 cuft |
| Casing Depth - HOC Tail | (HOC Tail) X (OH Ann) |
| Volume of Lead Cement 1003.11 cuft | Total Volume of Tail Cement 240.88 Cuft |
| HOC of Lead X Open Hole Ann | (HOC Tail X OH Ann) - (Shoe Length X Shoe Joint Ann) |
| Volume of Conductor 74.67 cuft | bbls of Tail Cement 42.98 bbls |
| (Conductor ID Squared) -(Casing Size OD Squared) X (.005454) X (Conductor Length ft) | (HOC of Tail) X (OH Ann) + (Cement Yield) X (Shoe Joint Ann) X (.1781) X (% Excess) |
| Total Volume of Lead Cement 1077.80 cuft | HOC Tail 419.49 ft |
| (cuft of Lead Cement) + (Cuft of Conductor) | (Tail Cement Volume) ÷ (OH Ann) |
| bbls of Lead Cement 191.90 bbls | Sacks of Tail Cement 190.00 sk |
| (Total cuft of Lead Cement) X (.1781) X (1+%Lead Excess) | (Total Volume of Tail Cement) ÷ (Cement Yield) |
| Sacks of Lead Cement 634.00 sk | bbls of Tail Mix Water 26.64 bbls |
| (Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement) | (Sacks of Tail Cement X Gallons Per Sack) ÷ 42 |
| bbls of Lead Mix Water 135.86 bbls | Pressure of cement in annulus |
| (Sacks Needed) X (Gallons Per Sack) ÷ 42 | Hydrostatic Pressure 585.23 PSI |
| Displacement 162.78 bbls | |
| (Casing ID Squared) X (.0009714) X (Casing Depth) + (Landing Joint) - (Shoe Length) | |
| Total Water Needed: 400.00 bbls | Collapse PSI: 2570.00 psi |
| | Burst PSI: 3950.00 psi |

X
Authorization to Proceed



Davis 10-9H-G266

Matthew Rosales

Treatment Report Page 2

Date _____



Bison Oil Well Cementing Tail & Lead

Cementing Customer Satisfaction Survey

| | |
|--------------|------------------|
| Service Date | 5/18/2018 |
| Well Name | DAVIS 10-9H-GZ66 |
| County | Weld |
| State | Colorado |
| SEC | 9 |
| TWP | 2N |
| RNG | 66W |

| | |
|----------------|-------------------------|
| Invoice Number | 300134 |
| API # | 05-123-46504 |
| Job Type | Two Cement |
| Company Name | Crestone Peak Resources |

| | |
|-------------------------|-------|
| Customer Representative | BRENT |
|-------------------------|-------|

| | |
|-----------------|---------------|
| Supervisor Name | JASON KELEHER |
|-----------------|---------------|

| Employee Name (Including Supervisor) |
|--------------------------------------|
| JASON |
| JESSE |
| CHRIS |
| TERRY |
| AMANDA |

| Exposure Hours (Per Employee) |
|-------------------------------|
| 4 |
| 4 |
| 4 |
| 4 |
| 4 |
| 20 |

Total Exposure Hours

Did we encounter any problems on this job?

☐ Yes

☒ No

To Be Completed By Customer

Rating/Description

- 5 - Superior Performance (Established new quality/performance standards)
 - 4 - Exceeded Expectation (Provided more than what was required/expected)
 - 3 - Met Expectations (Did what was expected)
 - 2 - Below Expectations (Job problems/failures occurred - *Recovery made)
 - 1 - Poor Performance (Job problems/failures occurred - *Some recovery made)
- *Recovery: resolved issue(s) on jobsite in a timely and professional manner

RATING CATEGORY

| | |
|-------|------------------------|
| _____ | Personnel - |
| _____ | Equipment - |
| _____ | Job Design - |
| _____ | Product/Material - |
| _____ | Health & Safety - |
| _____ | Environmental - |
| _____ | Timeliness - |
| _____ | Condition/Appearance - |
| _____ | Communication - |

CUSTOMER SATISFACTION RATING

| |
|---|
| Did our personnel perform to your satisfaction? |
| Did our equipment perform to your satisfaction? |
| Did we perform the job to the agreed upon design? |
| Did our products and materials perform as you expected? |
| Did we perform in a safe and careful manner (Pre/post mtgs, PPE, TSMR, etc...)? |
| Did we perform in an environmentally sound manner (spills, leaks, cleanup, etc...)? |
| Was job performed as scheduled (On time to site, accessible to customers, completed when expected)? |
| Did the equipment condition and appearance meet your expectations? |
| How well did our personnel communicate during mobilization, rig up and job execution? |

Please Circle:

| | | |
|-----|----|--|
| Yes | No | Did an accident or injury occur? |
| Yes | No | Did an injury requiring medical treatment occur? |
| Yes | No | Did a first-aid injury occur? |
| Yes | No | Did a vehicle accident occur? |
| Yes | No | Was a post-job safety meeting held? |

Please Circle:

| | | |
|-----|----|--------------------------------------|
| Yes | No | Was a pre-job safety meeting held? |
| Yes | No | Was a job safety analysis completed? |
| Yes | No | Were emergency services discussed? |
| Yes | No | Did environmental incident occur? |
| Yes | No | Did any near misses occur? |

Additional Comments:

THE INFORMATION HEREIN IS CORRECT -

x 
Customer Representative's Signature

DATE: _____

Any additional Customer Comments or HSE concerns should be described on the back of this form

DAVIS 10-9H-G266 SURFACE

